EDR RECORDS SERVICES, INC.

RECORDS PERTAIN TO: Hercules Marine Services Corporation

RECORDS FROM: Texas Natural Resource Conservation Commission

TYPE OF RECORDS: Investigation Records

CAUSE NO.: 96-G0201

DELIVER TO:

William J. Eggleston
Taylor & Eggleston
4800 Three Allen Center 333 Clay Street
Houston, Texas 77002

COPY

VOLUME V
PAGES 872 TO 990

2437 Bay Area Blvd., Ste. 228
Houston, Texas 77058
(281) 486-5531 * 800-876-3901

***GENERAL PERMIT INFORMATION
PERMIT: 13561 ENGR: MANN, AMBA E. / GROUP: CHEM ID:BL0118V
ISSUED TO: HERCULES MARINE SERVICES
UNIT NAME: BARGE CLEANING FACILITY
OPERATING SCHEDULE: 24.0 HRS/DAY 7 DAYS/WK 52 WKS/YR
LAT: 28-58-05 LONG: 095-17-26 REGION: 12 COUNTY: BRAZORIA
NEAR CITY: FREEPORT LOC: ?

JUN 02 [illegible]

***PERMIT/SITE CONTACT INFORMATION:
PERSON: LARRY BALLINGER ADDR1: P.O. DRAWER O
TITLE: MARINE MANAGER ADDR2:
CITY: FREEPORT STATE: TX ZIP: 77541 PHONE: (409)233-6371

** CONSTRUCTION **		** OPERATING **		** CONTINUANCE **	
TYPE APPL(C,S,X):	(X)	OPERATION START :	07-08-82	NOTICE MAILED :	
APPL RECD :	04-19-82	OPER APPL RECD :		APPL RECD :	
DEFIC LTR SNT :		OPER APPL CMPLT :		DEFIC LTR SNT :	
SUPP INFO REQ :		DISP(I,D):	( )	SUPP INFO REQ :	
SUPP INFO RECD :		OPR TYPE(R,S) :	( )	SUPP INFO RECD :	
APPL CMPLT :		**********		APPL CMPLT :	
COMP LTR SNT :		*	*	COMP LTR SNT :	
PUB NTC SNT :		* I= ISSUED D=DENIED	*	PUB NTC SNT :	
PUB NTC PUB :		* E=EXPIRED	*	PUB NTC PUB :	
PUB HEAR (R,H) :	( )	* C=CNST S=SPECIAL	*	PUB HEAR(R,H) :	( )
CNST TYPE(C,X,S):	(X)	* X=EXEMPT R=OPER	*	DISP(I,D,E):( ) :	
DISP (I) :	06-08-82	**********			
CNST START DATE :	06-08-82				

EMISSIONS CHANGED :

**REMARKS:OWN CHG 1/20/89 FR FISH ENGINEERING & CONSTRUCTION, INC. OWN CHG 9/1/93 FR HERCULES OFFSHORE DRILLING. NAME CHG FROM HERCULES REAL ESTATE CORP. PER LETTER 2/25/94.

***OTHER PERMIT DATES:
APP/PERMIT VOIDED: REASON:
APP ON HOLD UNTIL: REASON:
CONST STOPPED UNTIL:

VOID/HOLD CODES: PD-PLT DISMANTLED
CR-COMPANY REQUEST TI-TIME EXPIRED
DD-DATA DELAY TD-TECH DIFFICULTY
RE-REISSUED NR-NO RESPONSE

***PERMIT TYPES/STANDARDS:
NEW MAJ SOURCE:> 100 TPY: SIC: 4491
MAJOR MODIFICATION: PORTABLE: RELATED PERMITS: NEW: REASON:
NON-ATTAIN REVIEW: NSPS: TACB: MOC:
INSIGNIFICANT EMISSIONS: NESHAP: PSD-TX: OWN: X
FUEL CONVERSION: TOXIC MATERIALS: STD EX NO.:

***AIR CONTAMINANT INFORMATION:

NAME	CODE	MAX ALLOWABLE RATE LBS/HR	TONS/YR	TOX
PART-U	10000	2.31	0.17	
NONMETHANE VOC-U	50001	1.69	2.18	
NITROGEN OXIDES	70400	25.57	1.88	
SULFUR OXIDE-U	70500	167.48	12.31	
CARBON MONOXIDE	90300	11.70	0.86	

***ABATEMENT EQUIPMENT:

000872

STATE OF TEXAS
COUNTY OF TRAVIS
I hereby certify that this is a true and correct copy of a Texas Natural Resource Conservation Commission document, which is filed in the permanent records of the Commission.
Given under my hand and the seal of office on [illegible]
Jimmie E. Savage, Custodian of Records
Texas Natural Resource Conservation Commission

ACCOUNT: BL0118V ENGINEERS: MANN, AMBA E. /
ISSUED TO: HERCULES MARINE SERVICES
UNIT NAME: BARGE CLEANING FACILITY
CITY: FREEPORT COUNTY: BRAZORIA REGION: 12 PERMIT: 13561

****

*** EMISSION POINT INFORMATION: H-1

UTMZONE: 15 NAME: HEATER
EASTMETERS: 276768 HEIGHT: 10 TEMP: 600
NORTHMETERS: 3206433 TYPE: STACK
REMARK:
DIAMETER: 2.50 VELOCITY: 21.40 MOISTURE: HOR DIS: NO

****

*** FACILITY INFORMATION

FACILITY	SCC	SCHED HD	SCHED D	SCHED WY	NSPS	NESHAP	START CONST	START OPER
01001	10500105	1.0	3	49	NO	NO	6-08-82	7-08-82

****

*** ABATEMENT EQUIPMENT INFORMATION

CIN	NO UNITS	CODE	DESCRIPTION

****

*** CONTAMINANT INFORMATION

FACILITY: 01001 NAME: PART-U CODE: 10000
CHANGE DATE: 06-08-82 REASON FOR CHANGE: N
ALLOW: 2.3129 L/H CHG INCR: 2.3129 L/H
0.1700 T/Y .1700 T/Y ACTUAL: T/Y

FACILITY: 01001 NAME: NONMETHANE VOC-U CODE: 50001
CHANGE DATE: 06-08-82 REASON FOR CHANGE: N
ALLOW: 1.2244 L/H CHG INCR: 1.2244 L/H
0.0900 T/Y .0900 T/Y ACTUAL: T/Y

FACILITY: 01001 NAME: NITROGEN OXIDES CODE: 70400
CHANGE DATE: 06-08-82 REASON FOR CHANGE: N
ALLOW: 25.5782 L/H CHG INCR: 25.5782 L/H
1.8800 T/Y 1.8800 T/Y ACTUAL: T/Y

FACILITY: 01001 NAME: SULFUR OXIDE-U CODE: 70500
CHANGE DATE: 06-08-82 REASON FOR CHANGE: N
ALLOW: 167.4829 L/H CHG INCR: 167.4829 L/H
12.3100 T/Y 12.3100 T/Y ACTUAL: T/Y

FACILITY: 01001 NAME: CARBON MONOXIDE CODE: 90300
CHANGE DATE: 06-08-82 REASON FOR CHANGE: N
ALLOW: 11.7006 L/H CHG INCR: 11.7006 L/H
0.8600 T/Y .8600 T/Y ACTUAL: T/Y

ACCOUNT: BL0118V ENGINEERS:MANN, AMBA E. /
ISSUED TO: HERCULES MARINE SERVICES
UNIT NAME: BARGE CLEANING FACILITY
CITY: FREEPORT COUNTY: BRAZORIA REGION: 12 PERMIT: 13561

****

*** EMISSION POINT INFORMATION: AREA-1

UTMZONE: 15 NAME: BARGE CLEANING FACILITY
EASTMETERS: 276768 HEIGHT: 30 TEMP:
NORTHMETERS:3206433 TYPE: FUGITIVE
REMARK:
LENGTH: 1700 WIDTH: 1200 DEGREES E OFNORTH

****

*** FACILITY INFORMATION

FACILITY	SCC	HD	SCHED D	WY	NSPS	NESHAP	START CONST	START OPER
01002	40600259	24.0	7	52	NO	NO	6-08-82	7-08-82

****

*** ABATEMENT EQUIPMENT INFORMATION

CIN	NO UNITS	CODE	DESCRIPTION

****

*** CONTAMINANT INFORMATION

FACILITY: 01002 NAME: NONMETHANE VOC-U CODE: 50001
CHANGE DATE: 06-08-82 REASON FOR CHANGE: N
ALLOW: 0.4771 L/H CHG INCR: .4771 L/H
2.0900 T/Y 2.0900 T/Y ACTUAL: T/Y

TEXAS AIR CONTROL BOARD
DATE: 08-11-94 PERMIT APPLICATION SUMMARY PAGE:

TIME: 08:53:10

GENERAL PERMIT INFORMATION
PERMIT: 13561 ENGR: MANN, AMBA E. / GROUP: CHEM ID:BI

ISSUED TO: ~~HERCULES REAL ESTATE CORPORATION~~ Hercules Marine Services
UNIT NAME: BARGE CLEANING FACILITY
OPERATING SCHEDULE: 24.0 HRS/DAY 7 DAYS/WK 52 WKS/YR
LAT: 28-58-05 LONG: 095-17-26 REGION: 12 COUNTY: BRAZORIA
NEAR CITY: FREEPORT LOC: /

PERMIT/SITE CONTACT INFORMATION:
PERSON: LARRY BALLINGER ADDR1: P.O. DRAWER O
TITLE: MARINE MANAGER ADDR2:
CITY: FREEPORT STATE: TX ZIP: 77541 PHONE: 4099233-6371

* CONSTRUCTION **		** OPERATING **		** CONTINUANCE **	
TYPE APPL(C,S,X):	(X)	OPERATION START :	07-08-82	NOTICE MAILED	:
APPL RECD	: 04-19-82	OPER APPL RECD	:	APPL RECD	:
DEFIC LTR SNT	:	OPER APPL CMPLT	:	DEFIC LTR SNT	:
SUPP INFO REQ	:	DISP(I,D):	( )	SUPP INFO REQ	:
SUPP INFO RECD	:	OPR TYPE(R,S)	: ( )	SUPP INFO RECD	:
APPL CMPLT	:	**********		APPL CMPLT	:
COMP LTR SNT	:	*	*	COMP LTR SNT	:
PUB NTC SNT	:	* I= ISSUED D=DENIED	*	PUB NTC SNT	:
PUB NTC PUB	:	* E=EXPIRED	*	PUB NTC PUB	:
PUB HEAR(R,H)	: ( )	* C=CNST S=SPECIAL	*	PUB HEAR(R,H)	: ( )
NSR TYPE(C,X,S):	(X)	* X=EXEMPT R=OPER	*	DISP(I,D,E):	( ) :
DISP (I)	: 06-08-82	**********			
INST START DATE	: 06-08-82	Disp 10-31-84			

EMISSIONS CHANGED :

REMARKS:OWN CHG 1/20/89 FR FISH ENGINEERING & CONSTRUCTION, INC. OWN CHG 9/1/93 FR HERCULES OFFSHORE DRILLING.
Name change from Hercules Real Estate Corp per letter 2/25/94

OTHER PERMIT DATES:		VOID/HOLD CODES:	PD-PLT DISMANTL
APP/PERMIT VOIDED:	REASON:	CR-COMPANY REQUEST	TI-TIME EXPIRE
APP ON HOLD UNTIL:	REASON:	DD-DATA DELAY	TD-TECH DIFFIC
INST STOPPED UNTIL:		RE-REISSUED	NR-NO RESPONS

PERMIT TYPES/STANDARDS:
NEW MAJ SOURCE:> 100 TPY: SIC: 4491
MAJOR MODIFICATION: PORTABLE: RELATED PERMITS: SUFFIX REA

NON-ATTAIN REVIEW: NSPS: TACB: CHG LOC:
INSIGNIFICANT EMISSIONS: NESHAP: PSD-TX: CHG OWN: X

FUEL CONVERSION: TOXIC MATERIALS: STD EX NO.:

AIR CONTAMINANT INFORMATION:

NAME	CODE	MAX ALLOWABLE RATE LBS/HR	MAX ALLOWABLE RATE TONS/YR	ACTUAL TONS/YR
PART-C	10000	2.31	0.17	
NONMETHANE VOC-C	50001	1.69	2.18	
[illegible]	[illegible]	[illegible]	[illegible]	

000875

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

October 7, 1994

Robert Millis
Chief Financial Officer
Hercules Marine Services Corporation
P.O. Drawer O
Freeport, Texas 77541

Re: Change of Name
Permit No. X-13561
Barge Cleaning
Freeport, Brazoria County
Account ID No. BL-0118-V

Dear Mr. Millis:

We appreciate being informed that Hercules Marine Services Corporation is now the name of the referenced facility which was previously named Hercules Real Estate Corporation. Our files have been updated to indicate that the change of name has occurred.

As the owner of the facility, you have committed to maintain compliance with all air quality Rules and Regulations of the Texas Natural Resource Conservation Commission and the requirements of this permit exemption at all times.

Thank you for providing this information and for your commitment to comply. Your cooperation and interest in air pollution control are appreciated.

Sincerely,

David L. Howell
CORE Section
New Source Review Program

cc: Ms. Karen Kilpatrick, Manager, Air Program, Houston
Leo D. O'Gorman, M.D., Director, Brazoria County Health Department, Angleton

000876

HERCULES
MARINE SERVICES CORPORATION

Strength through environmental awareness and customer service

P.O. Drawer O
Freeport, Texas 77541

Office (409) 233-6371
Fax. (409) 233-6375

February 25, 1994

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Director, Permits Division
Texas Air Control Board
6330 Hwy. 290 East
Austin, Texas 78723

RE: Change of Name of Permit Holder
Permit Number: X-13561
Barge Cleaning
Freeport, Brazoria County
Account I.D. Number: BL-0118-V

Gentlemen:

By letter dated September 1, 1993, a copy of which is enclosed for your reference, we advised the Texas Air Control Board ("TACB") that, effective September 1, 1993, Hercules Offshore Corporation transferred and sold its Freeport facility to Hercules Real Estate Corporation ("Hercules REC").

The purpose of this letter is to notify the TACB that, effective January 7, 1994, Hercules REC, the current permit exemption holder, has changed its name to Hercules Marine Services Corporation. Please accept this letter as notice of this change and make any necessary updates to the permit exemption.

If you have any questions regarding this notice and request, please contact the undersigned at (713) 789-7983.

Very truly yours,

HERCULES MARINE SERVICES CORPORATION

By: Robert H. Millis
Robert Millis,
Chief Financial Officer

KMO:rmg
Enclosure
f:/man/704-14/permit.tac

000877

HERCULES
REAL ESTATE CORPORATION

11011 Richmond Ave., Suite 500
Houston, Texas 77042

Office (713) 789-7983
Fax (713) 789-4063

September 1, 1993

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Director, Permits Division
Texas Air Control Board
6330 Hwy. 290 East
Austin, Texas 78723

RE: Change of Ownership
Permit Number: X-13561
Barge Cleaning
Freeport, Brazoria County
Account I.D. Number: BL-0118-V

Gentlemen:

Hercules Offshore Corporation currently operates a barge cleaning facility in Freeport, Texas. TACB exempted this facility from the permit procedures of the Agency by letter dated June 8, 1982, permit exemption X-3561 when the facility was owned by Fish Engineering and Construction, Incorporation.

This is to advise you that on September 1, 1993, Hercules Offshore Corporation ("Hercules 1") transferred and sold its Freeport facility to Hercules Real Estate Corporation ("Hercules REC"). At that time, Hercules 1 changed its name.

The change in ownership should not affect Hercules' future operations. The entire management team and employees of Hercules 1 transferred to and will manage and work for Hercules REC. Hercules REC will continue to conduct business at the same address and our telephone and facsimile numbers will remain the

same. If you need to speak with someone at the facility, you can contact our Marine Manager as set forth below:

Larry Ballinger
Marine Manager
906 Marlin Lane
P. O. Drawer O
Freeport, TX 77541
Telephone: (409) 233-6371
Facsimile: (409) 233-6375

Please accept this letter as notice of this change in ownership and make any necessary transfers of the permit exemption. If you have any questions regarding this notice and request, please contact the undersigned at (713) 789-7983.

Very truly yours,

HERCULES REAL ESTATE CORPORATION

By: _____
Robert Millis, Controller

RM:rmg
f:/man/704-11/permit.03a

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

October 7, 1994

Robert Millis
Chief Financial Officer
Hercules Marine Services Corporation
P.O. Drawer O
Freeport, Texas 77541

Re: Change of Name
Permit No. X-13561
Barge Cleaning
Freeport, Brazoria County
Account ID No. BL-0118-V

Dear Mr. Millis:

We appreciate being informed that Hercules Marine Services Corporation is now the name of the referenced facility which was previously named Hercules Real Estate Corporation. Our files have been updated to indicate that the change of name has occurred.

As the owner of the facility, you have committed to maintain compliance with all air quality Rules and Regulations of the Texas Natural Resource Conservation Commission and the requirements of this permit exemption at all times.

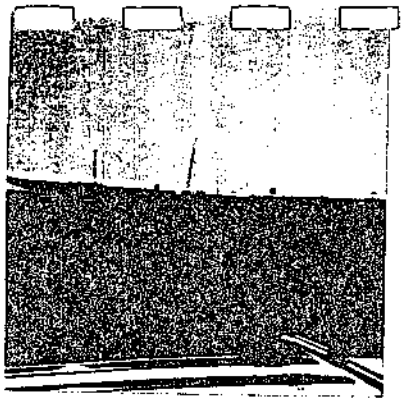
Thank you for providing this information and for your commitment to comply. Your cooperation and interest in air pollution control are appreciated.

Sincerely,

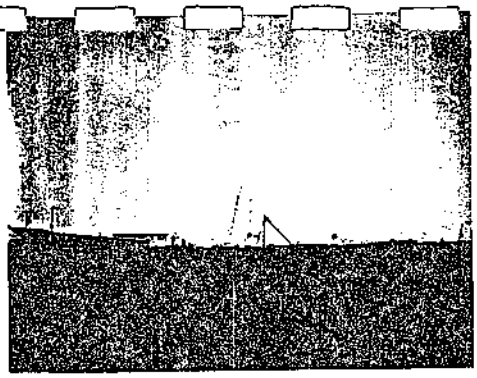
David L. Howell
CORE Section
New Source Review Program

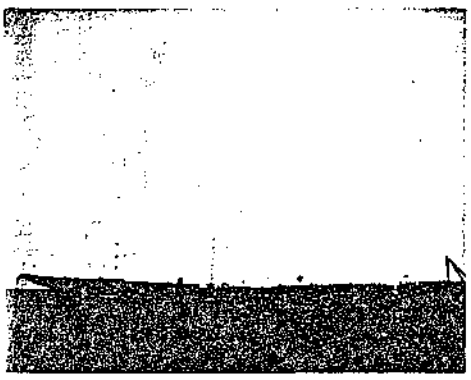
cc: Ms. Karen Kilpatrick, Manager, Air Program, Houston
Leo D. O'Gorman, M.D., Director, Brazoria County Health Department, Angleton

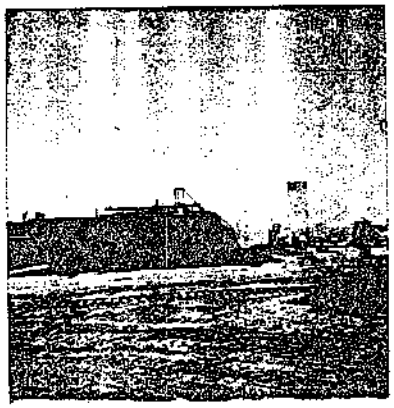
000880



10:15 am Snapper bin
Hercules Offshore
8/9/89 MK



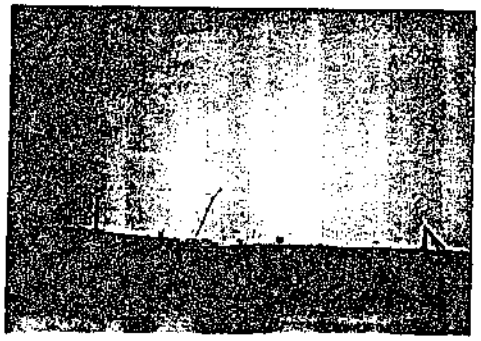




HERCULES OFFSHORE COMPANY
8-9-89 1135 AM DDM

Hercules Offshore Company
8/9/89 11:40 am DDM

Hercules Offshore Company
8/9/89 11:35am



DATE: 11-17-93 PERMIT APPLICATION SUMMARY PAGE: 1
TIME: 18:15:04

**GENERAL PERMIT INFORMATION
PERMIT: 13561 ENGR: MANN, AMBA E. / GROUP: CHEM ID:HL0119V
ISSUED TO: HERCULES REAL ESTATE CORPORATION
UNIT NAME: BARGE CLEANING FACILITY
OPERATING SCHEDULE: 24.0 HRS/DAY 7 DAYS/WK 52 WKS/YR
LAT: 28-58-05 LONG: 095-17-26 REGION: 12 COUNTY: BRAZORIA
NEAR CITY: FREEPORT LOC: ?

**PERMIT/SITE CONTACT INFORMATION:
PERSON: LARRY BALLINGER ADDR1: P.O. DRAWER D
TITLE: MARINE MANAGER ADDR2:
CITY: FREEPORT STATE: TX ZIP: 77541 PHONE: (409)233-6371

** CONSTRUCTION **		** OPERATING **		** CONTINUANCE **	
TYPE APPL(C,S,X):	(X)	OPERATION START :	07-08-82	NOTICE MAILED :	
APPL RECD :	04-19-82	OPER APPL RECD :		APPL RECD :	
DEFIC LTR SNT :		OPER APPL CMPLT :		DEFIC LTR SNT :	
SUPP INFO REQ :		DISP(I,D): ( )		SUPP INFO REQ :	
SUPP INFO RECD :		OPR TYPE(R,S) : ( )		SUPP INFO RECD :	
APPL CMPLT :		**********		APPL CMPLT :	
COMP LTR SNT :		* *		COMP LTR SNT :	
PUB NTC SNT :		* I= ISSUED D=DENIED *		PUB NTC SNT :	
PUB NTC PUB :		* E=EXPIRED *		PUB NTC PUB :	
PUB HEAR (R,H) :	( )	* C=CNST S=SPECIAL *		PUB HEAR(R,H) :	( )
CNST TYPE(C,X,S):	(X)	* X=EXEMPT R=OPER *		DISP(I,D,E):( ) :	
DISP (I) :	06-08-82	**********			
CNST START DATE :	06-08-82				

**EMISSIONS CHANGED :

**REMARKS:OWN CHG 1/20/89 FR FISH ENGINEERING & CONSTRUCTION, INC. OWN CHG 9/1/93 FR HERCULES OFFSHORE DRILLING.

**OTHER PERMIT DATES:
APP/PERMIT VOIDED: REASON:
APP ON HOLD UNTIL: REASON:
CONST STOPPED UNTIL:

VOID/HOLD CODES: PD-PLT DISMANTLED
CR-COMPANY REQUEST TI-TIME EXPIRED
DD-DATA DELAY TD-TECH DIFFICULTY
RE-REISSUED NR-NO RESPONSE

**PERMIT TYPES/STANDARDS:
NEW MAJ SOURCE:> 100 TPY: SIC: 4491
MAJOR MODIFICATION: PORTABLE: RELATED PERMITS: SUFFIX REASON
NON-ATTAIN REVIEW: NSPS: TACB: CHG LOC:
INSIGNIFICANT EMISSIONS: NESHAP: PSD-TX: CHG OWN: Y
FUEL CONVERSION: TOXIC MATERIALS: STD EX NO.:

**AIR CONTAMINANT INFORMATION:

NAME	CODE	MAX ALLOWABLE RATE LBS/HR	MAX ALLOWABLE RATE TONS/YR	ACTUAL TONS/YR
PART-U	10000	2.31	0.17	
NONMETHANE VOC-U	50001	1.69	2.18	
NITROGEN OXIDES	70400	25.57	1.88	
SULFUR OXIDE-U	70500	167.48	12.31	
CARBON MONOXIDE	90300	11.70	0.86	

**ABATEMENT EQUIPMENT:

000882

ACCOUNT: BL0118V ENGINEERS: MANN, AMBA E. /
ISSUED TO: HERCULES REAL ESTATE CORPORATION
UNIT NAME: BARGE CLEANING FACILITY
ITY: FREEPORT COUNTY: BRAZORIA REGION: 12 PERMIT: 13561

****

** EMISSION POINT INFORMATION: H-1

TMZONE: 15 NAME: HEATER
ASTMETERS: 276750 HEIGHT: 10 TEMP: 600
ORTHMETERS: 3206433 TYPE: STACK
EMARK:
AMETER: 2.50 VELOCITY: 21.40 MOISTURE: NOR DIS: NO

****

** FACILITY INFORMATION

ACILITY	SCC	SCHED HD	D	WY	NSPS	NESHAP	START CONST	START OPER
1001	10500105	1.0	3	49	NO	NO	6-08-82	7-08-82

****

** ABATEMENT EQUIPMENT INFORMATION

IN	NO UNITS	CODE	DESCRIPTION

****

** CONTAMINANT INFORMATION

ACILITY: 01001 NAME: PART-U CODE: 10000
CHANGE DATE: 06-08-82 REASON FOR CHANGE: N
ALLOW: 2.3129 L/H CHG INCR: 2.3129 L/H
.1700 T/Y .1700 T/Y ACTUAL: T/Y

ACILITY: 01001 NAME: NONMETHANE VOC-U CODE: 50001
CHANGE DATE: 06-08-82 REASON FOR CHANGE: N
ALLOW: 1.2244 L/H CHG INCR: 1.2244 L/H
.0900 T/Y .0900 T/Y ACTUAL: T/Y

ACILITY: 01001 NAME: NITROGEN OXIDES CODE: 70400
CHANGE DATE: 06-08-82 REASON FOR CHANGE: N
ALLOW: 25.5782 L/H CHG INCR: 25.5782 L/H
1.8800 T/Y 1.8800 T/Y ACTUAL: T/Y

ACILITY: 01001 NAME: SULFUR OXIDE-U CODE: 70500
CHANGE DATE: 06-08-82 REASON FOR CHANGE: N
ALLOW: 167.4829 L/H CHG INCR: 167.4829 L/H
12.3100 T/Y 12.3100 T/Y ACTUAL: T/Y

ACILITY: 01001 NAME: CARBON MONOXIDE CODE: 90300
CHANGE DATE: 06-08-82 REASON FOR CHANGE: N
ALLOW: 11.7006 L/H CHG INCR: 11.7006 L/H
.8600 T/Y .8600 T/Y ACTUAL: T/Y

CCOUNT: BL0118V NGINEERS:MANN, AMBA E.
SSUED TO: HERCULES REAL ESTATE CORPORATION
NIT NAME: BARGE CLEANING FACILITY
ITY: FREEPORT COUNTY: BRAZORIA REGION: 12 PERMIT: 13561

****

** EMISSION POINT INFORMATION: AREA-1

TMZONE: 15 NAME: BARGE CLEANING FACILITY
ASTMETERS: 276758 HEIGHT: 30 TEMP:
ORTHMETERS:3206433 TYPE: FUGITIVE
EMARK:
ENGTH: 1700 WIDTH: 1200 DEGREES E OFNORTH

****

** FACILITY INFORMATION

ACILITY	SCC	HR	SCHED D	WY	NSPS	NESHAP	START CONST	START OPER
1002	40600259	24.0	7	52	NO	NO	6-08-82	7-08-82

****

** ABATEMENT EQUIPMENT INFORMATION

IN	NO UNITS	CODE	DESCRIPTION

****

** CONTAMINANT INFORMATION

ACILITY: 01002 NAME: NONMETHANE VOC-U CODE: 43001
CHANGE DATE: 06-08-82 REASON FOR CHANGE: N
ALLOW: 0.4771 L/H CHG INCR: .4771 L/H
2.0900 T/Y 2.0900 T/Y ACTUAL: T/Y

file

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

November 8, 1993

Mr. Robert Millis
Controller
HERCULES REAL ESTATE CORPORATION
11011 Richmond Avenue, Suite 500
Houston, Texas 77042

Re: Change of Ownership
Permit Exemption No. X-13561
Barge Cleaning Facility
Freeport, Brazoria County
Account ID No. BL-0118-V

Dear Mr. Millis:

We appreciate being informed that Hercules Real Estate Corporation is now the owner of the referenced facility which was previously owned by Hercules Offshore Corporation. Our files have been updated to indicate that the change of ownership has occurred.

We understand that there will be no change in the type of pollutants emitted and no increase in the quantity of emissions. As the new owner of the facility, you have committed to maintain compliance with all air quality Rules and Regulations of the Texas Natural Resource Conservation Commission and the requirements of this permit exemption at all times.

Thank you for providing this information and for your commitment to comply. Your cooperation and interest in air pollution control are appreciated.

Sincerely, Thanks

Cecil Bradford

Cecil Bradford
Chief of Staff Services
New Source Review Program

cc: Ms. Karen Kilpatrick, Air Program Manager, Houston
Leo D. O'Gorman, M.D., Director, Brazoria County Health Department, Angleton

000885

HERCULES
REAL ESTATE CORPORATION

11011 Richmond Ave., Suite 500
Houston, Texas 77042

Office (713) 789-7983
Fax (713) 789-4063

September 1, 1993

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Director, Permits Division
Texas Air Control Board
6330 Hwy. 290 East
Austin, Texas 78723

RE: Change of Ownership
Permit Number: X-13561
Barge Cleaning
Freeport, Brazoria County
Account I.D. Number: BL-0118-V

Gentlemen:

Hercules Offshore Corporation currently operates a barge cleaning facility in Freeport, Texas. TACB exempted this facility from the permit procedures of the Agency by letter dated June 8, 1982, permit exemption X-3561 when the facility was owned by Fish Engineering and Construction, Incorporation.

This is to advise you that on September 1, 1993, Hercules Offshore Corporation ("Hercules 1") transferred and sold its Freeport facility to Hercules Real Estate Corporation ("Hercules REC"). At that time, Hercules 1 changed its name.

The change in ownership should not affect Hercules' future operations. The entire management team and employees of Hercules 1 transferred to and will manage and work for Hercules REC. Hercules REC will continue to conduct business at the same address and our telephone and facsimile numbers will remain the

same. If you need to speak with someone at the facility, you can contact our Marine Manager as set forth below:

Larry Ballinger
Marine Manager
906 Marlin Lane
P. O. Drawer O
Freeport, TX 77541
Telephone: (409) 233-6371
Facsimile: (409) 233-6375

Please accept this letter as notice of this change in ownership and make any necessary transfers of the permit exemption. If you have any questions regarding this notice and request, please contact the undersigned at (713) 789-7983.

Very truly yours,

HERCULES REAL ESTATE CORPORATION

By: Robert H. Millis
Robert Millis, Controller

RM:rmg
f:/man/704-11/permit.03a

HERCULES
OFFSHORE CORPORATION

Strength through experience, equipment, know-how

P.O. Drawer O
Freeport, Texas 77541

Office: (409) 233-6371
Fax: (409) 233-6375

December 11, 1991

BL0118V

Texas Air Control Board
5555 West Loop South
Suite 300
Bellaire, Texas 77401-2192

Attention: Exemption Status Board
SUBJECT: Ammendment to Permit # X13561

Dear Sir:

In January 1989 Hercules Offshore Corporation purchased property in Freeport, Texas from Fish Engineering. The property is located on the Intracoastal Waterway at mile marker 93. The geographical co-ordinates of the facility are 28° 58' 05" north latitude and 95° 17' 26" west longitude.

Hercules notified TACB in February 1989 of the change in ownership and the TACB transfered the permit exemption # X13561 to Hercules Offshore.

During the 1989 sales transaction, Hercules chose not to purchase one of the tracts of land owned by Fish Engineering. This tract of land contained settling ponds which Fish Engineering closed in 1982. Fish Engineering presently owns this tract.

Due to recent increase in business Hercules is requesting an amendment to the original permit # X13561. The increase will not affect our exemption status for emission. The emission of voc's will still be below 25T/yr.

An increase in cleaning barges has prompted Hercules request for an ammended status. In 1982 Fish Engineering cleaned a total of 150 barges. Hercules presently is cleaning about 240 barges annually. This increase is primarily due to the caustic barges which we clean. Caustic cleaning attributes to approximately one third (1/3) of our total. This increase also reflect projected increases in business. Emission data in enclosed report reflects our projected increase.

Hercules maintains its strict policy concerning wind direction in connection with our residential neighbors.

We at Hercules appreciate all your efforts to handle this matter expediously. If any problems or questions arise, please contact me at our facility (409) 233-6371.

Sincerely,

Darrell Guidry/Project Manager
HERCULES OFFSHORE CORPORATION

DG/se

cc: T. Seward/Houston

TEXAS AIR CONTROL BOARD

RECEIVED
JUN 21 1982
REGION 7
TEXAS AIR CONTROL BOARD

JUN 8 1982

Mr. G. J. Gill
Senior Vice President
[illegible] ENGINEERING AND CONSTRUCTION,
INCORPORATED
Post Office Box 22535
Houston, Texas 77027

Re: Permit Exemption X-3561
Barge Cleaning Facility
Freeport, Brazoria County

Dear Mr. Gill:

This is in response to your letter dated April 14, 1982, concerning the proposed construction of a barge cleaning facility. We understand that total emissions of volatile organic compounds will not exceed 17.4 tons per year.

Pursuant to Section 3.27(a) of the Texas Clean Air Act, I have determined to exempt your proposed facility from the permit procedures of this Board because it will not make a significant contribution of air contaminants to the atmosphere if constructed and operated as described in your letter. You are reminded that regardless of whether a construction permit is required, this facility must be in compliance with all Rules and Regulations of the Texas Air Control Board at all times.

The issuance of this exemption is contingent upon the following conditions:

1. Nitrogen oxide emissions from Heater H-1 shall not exceed 0.16 lbs. $NO_x/10^6$ Btu heat input.

2. The firing duration of Heater H-1 shall not exceed 147 hours per year.

000890

3. A record shall be maintained to include the firing duration of Heater H-1, the number and capacity of barges cleaned and the type of material each barge contained. This record shall be made available to representatives of the Board upon request.

Thank you for providing the information necessary for our evaluation of your proposal. If you have further questions concerning this exemption, please contact Mr. Amba Mann of our Permits Division.

Sincerely,

Bill Stewart, P.E.
Executive Director

cc: Mr. Sabino Gomez, M.P.H., Regional Supervisor, Bellaire
Dr. G. B. Brown, Jr., Acting Director, Brazoria County Health Department, Angleton

If you have any questions or require any additional information please do not hesitate to contact our Dr. Richard T. Whitehead at this office.

Very truly yours,

FISH ENGINEERING & CONSTRUCTION, INC.

G. J. Gill
Senior Vice President

cc: Dr. G. B. Brown, Jr.
Acting Director
Brazoria County Health Department
Old Court House Building
Angleton, Texas 77515

Mr. Sabind Gomez, M.P.H.
Supervisor
Texas Air Control Board
5555 West Loop, Suite 300
Bellaire, Texas 77401

EXHIBIT I

INDEX

1. FISH FREEPORT MARINE FACILITY OPERATION

The Fish Freeport Marine Facility is for the construction of offshore gas and oil production platforms and the repair of cargo-carrying barges. The repair of barges usually requires cleaning of the barges' tanks by washing and gas-freeing to enable work crews to cut and weld in safety. On the average, one barge is cleaned every three days and requires 9,000 gallons for proper cleaning. In exceptional cases 25,000 gallons can be required to wash a large barge. About 4 percent of the barges washed have a carrying capacity of 88,000 barrels, 18 percent have a capacity of about 20,000 barrels and the remaining 32 percent have a capacity of about 10,000 barrels. Gas-freeing a large 20,000 barrel barge takes 4 to 8 hours while for a 10,000 barrel barge the gas can be removed from the tanks in 2-3 hours. However, barges in volatile liquids service, such as cyclohexane or acetone, arrive with their hatches open so that their tanks are usually dry and free of vapors on docking.

Before wahing can take place, any remaining heel of product is pumped out and stored in the Product Storage Tanks, T-10, T-11 and T-12, or the Stripped Oil Settling Tank, T-7 (See attached flowsheet). The pumping (called stripping) is done by a portable air-operated pump which uses a flexible hose to reach into the barges' tank sumps. On the average, a barge has 3 to 6 tanks with 50 gallons of heel in each tank sump. Periodically the Product Storage and Stripped Oil Settling Tanks are emptied into trucks and the contents sold for fuel or chemical use. About one barge in 20 requires stripping before washing begins.

Each tank in a barge is washed with a Butterworth machine which projects a rotating spray of wash water throughout the tank. Cold high pressure water sprays are usually sufficient to clean tanks to enable repair work to begin. However, for viscous liquids, such as crude oil or No. 6 fuel oil, hot water is usually required to assure cleanliness. A fire-tube diesel oil-fired heater, H-1, provides the hot water. Water for the water heater and for washing comes from a well on site or from a fresh water pond on site.

Water consumption is reduced by recycling. Clean water recycles through the Water Recycle Tank, T-6. Oil and dirty water recycles through the new system consisting of an oil/water gravity separator, two 1000 barrel tanks and one 5000 barrel tank. The separator is a totally enclosed box and uses corrugated inclined plates to separate oil and heavy sludges from the circulating wash water. The tanks store re-used water for up to 90 days, after which the water is removed from the site by road trucks or barge for disposal.

Oil skimmed from the water in the separator flows by gravity into the Slop Oil Tank, T-15. When the Slop Oil Tank is full the contents are sold as fuel and transported from the plant site in tank trucks.

Residual water in barges' tanks contains rust particles, scale and sludge which must be removed by vacuum. Two vacuum pumps provide suction through a flexible hose to pump out the water remaining in the tanks and separate out the solids and sludge in settling tanks. One settling system consists of an inclined Solids K.O. Pot, T-5, together with a horizontal Wash Water Vacuum Tank T-4. The new system of improved design consists of a vertical tank T-13 and a horizontal tank T-14. Water from the vacuum tanks goes to the oil/water separator and then to the wash water storage tanks, T-16, T-17, and T-18 for re-use and eventual disposal.

3. METHOD OF CALCULATION

The calculation of emissions from the equipment at the Fish Freeport Marine Facility followed the methods laid down in "Compilation of Air Pollutant Emission Factors", 3rd. Edition, AP-42, published by the U.S. Environmental Protection Agency. Breathing and working losses were calculated for each storage tank, and for the oil/water separator the only loss calculated was the breathing loss since the level in the separator remains constant. Emissions from the diesel oil-fired water heater were calculated using distillate oil fired industrial boiler factors with heat input rates between 15 and 250 million Btu per hour.

In accordance with the Partial Stay of Regulations published by the U.S. Environmental Protection Agency in the Federal Register, Volume 46, No. 242, Thursday, December 17, 1981, the emissions from the barges have not been included in the total facility annual emissions.

Calculations of emissions from storage tanks and truck loading were made for the worst case in each instance and then adjusted to approach more nearly the actual expected operating conditions. The table on the following page lists the worst case results using gasoline (RVP= 13.0 psi) for the most volatile hydrocarbon handled. Since in fact gasoline and other volatile hydrocarbons and chemicals represented a minor portion of the cargoes transported by the barges washed at the Marine Facility, these results were recalculated using a weighted vapor pressure reflecting the actual historical mix of cargoes rather than the high vapor pressure of the worst case. The recalculated results are listed in Section 5 of this Exhibit I.

Truck loading emissions were estimated assuming that about 20 minutes are required to load 1000 gallons into a truck.

SUMMARY OF ANNUAL STORAGE TANK AND TRUCK LOADING EMISSIONS - WORST CASE

SOURCE	CONTENTS	LB/YR
T-1	Diesel Oil	15.4
T-2	Diesel Oil	30.9
T-3	Water	-
T-4	Water	-
T-5	Water	-
T-6	Acetone/Water	1028
T-7	Gasoline	7141.5
T-8	Gasoline	1667.3
T-9	Gasoline	2321.5
T-10	MEK	505
T-11	MEK	528
T-12	MEK	522
T-13 (New)	Water	-
T-14 (New)	Water	-
T-15 (New)	Gasoline	5616
Oil/Water Separator (New)	Gasoline	245
T-16 (New)	Water	-
T-17 (New)	Water	-
T-18 (New)	Water	-
TRUCK LOADING (GASOLINE)		
E-1	Product Storage Tanks	840
E-3	Stripped Oil Settling Tank	583
E-2	Gasoline Storage Tanks	209
E-4	Slop Oil Tank	3184
		24436 = 12.21 tons/yr.

4. TYPICAL MIX OF BARGE CARGOES FOR WASHING AT FREEPORT MARINE FACILITY

Period June 1980 to August 1981

CARGO	NUMBER OF BARGES	
No. 6 fuel oil	23	6900 gal
No. 2 fuel oil	1	300
Crude Oil	3	900
Diesel oil	5	1500
C_5 Oil	1	300
Oil Residues	1	300
C_9 Oil	1	300
Naphtha	3	900
Gasoline	2	600
Lactol Solvent (C_6-C_8)	1	900
Gasoline Additive	1	900
Silicate Oil	1	900
Catalytic Reformer Feed Oil	2	600
Gas Oil	1	300
Benzene	24	7200
Xylene	4	1200
Toluene	7	2100
Cyclohexane	9	2700
Cumene	1	300
Ethylbenzene	2	600
Styrene	3	900
Caustic Soda	8	2400
Hydrochloric Acid	2	600
Sulphuric Acid	1	300
Fertilizer	1	300
Calcium Chloride	7	2100
Ethylene Glycol	3	900
Diethylene Glycol	1	300
Polyalkylene Glycols	6	1600
Methanol	1	300
Butanol	2	600
Niax Polyol	1	300
Chloroform	2	600
Perhloroethylene	1	300
Vinyl Chloride	1	300
Chlorine	4	1200
Acetic Acid	5	1500
Acetone	3	900
Methylethyl Ketone	2	600
Vinyl Acetate	1	300
Ballast Water	3	900
TOTAL	151	

Review of applications and issuance of permits will be expedited by supplying all necessary information requested on this Table.

AIR CONTAMINANT DATA						EMISSION POINT DISCHARGE PARAMETERS										
EMISSION POINT [1]		CHEMICAL COMPOSITION OF TOTAL STREAM		AIR CONTAMINANT EMISSION RATE		UTM COORDINATES OF EMISSION PT. [6]			STACK SOURCES [7]					AREA SOURCES [8]	
									HEIGHT ABOVE GROUND (ft)	HEIGHT ABOVE STRUCT. (ft)	EXIT DATA				
NUMBER	NAME	COMPONENT OR AIR CONTAMINANT NAME [2]	CONC. (%v) [3]	#/HR [4]	TONS/YR [5]	ZONE	EAST (meters)	NORTH (meters)			DIA. (ft)	VEL. (fps)	TEMP. (°F)	LENGTH (ft)	WIDTH (ft)
T-1	Tank	Diesel Oil		0.002	0.001										
T-2	Tank	Diesel Oil		0.004	0.002										
T-3	Tank	Water		-	-										
T-4	Tank	Water		-	-										
T-5	Tank	Water		-	-										
T-6	Tank	Wash Water		0.117	0.089										
T-7	Tank	Hydrocarbons		0.815	0.617										
T-8	Tank	Gasoline		0.190	0.144										
T-9	Tank	Gasoline		0.265	0.200										
T-10	Tank	Chemicals Hydrocarbons		0.058	0.044										
T-11	Tank	Chemicals Hydrocarbons		0.060	0.046										

GROUND ELEVATION OF FACILITY ABOVE MEAN SEA LEVEL - 10 feet.
TACB STANDARD CONDITIONS ARE 68° F AND 14.7 PSIA [RULE 131.01.00.001(55)]

General Instructions:

1. Identify each emission point with a unique number for this plant site, consistent with emission point identification used on plot plan, previous permits and Emissions Inventory Questionnaire. Limit emission point number to 8 character spaces. For each emission point use as many lines as necessary to list air contaminant data. Typical emission point names are: heater, vent, boiler, tank, reactor, separator, baghouse, fugitive, etc. Abbreviations are OK.
2. Typical component names are: air, H_2O, nitrogen, oxygen, CO_2, CO, NO_x, SO_2, hexane, particulate matter (PM), etc. Abbreviations are OK.
3. Concentration data is required for all gaseous components. Show concentration in volume percent of total gas stream.
4. Pounds per hour (# /HR) is maximum emission rate expected by applicant.
5. Tons per year (T/Y) is annual maximum emission rate expected by applicant, which takes into account process operating schedule.
6. As a minimum applicant must furnish a facility plot plan drawn to scale showing a plant benchmark, latitude and longitude correct to the nearest second for the benchmark, and all emission points dimensioned with respect to the benchmark as required by General Application, Form PI-1. This information is essential for calculation of emission point UTM coordinates. Please show emission point UTM coordinates if known.
7. Supply additional information as follows if appropriate:
   (a) Stack exit configuration other than a round vertical stack. Show length and width for a rectangular stack. Indicate if horizontal discharge with a note.
   (b) Stack's height above supporting or adjacent structures if structure is within 3 "stack heights above ground" of stack.
   (c) If emission point is a flare, show flare data on Table 8.
8. Normally used for fugitive sources. Show dimensions of a minimum size rectangle which will "enclose" all fugitive sources included in this emission point number.

868000

EMISSION SOURCES

DATE April 1982

Review of applications and issuance of permits will be expedited by supplying all necessary information requested on this Table.

AIR CONTAMINANT DATA						EMISSION POINT DISCHARGE PARAMETERS										
EMISSION POINT [1]		CHEMICAL COMPOSITION OF TOTAL STREAM		AIR CONTAMINANT EMISSION RATE		UTM COORDINATES OF EMISSION PT. [6]			STACK SOURCES [7]					AREA SOURCES [8]	
									HEIGHT ABOVE GROUND (ft)	HEIGHT ABOVE STRUCT. (ft)	EXIT DATA				
NUMBER	NAME	COMPONENT OR AIR CONTAMINANT NAME [2]	CONC. (%v) [3]	#/HR [4]	TONS/YR [5]	ZONE	EAST (meters)	NORTH (meters)			DIA. (ft)	VEL. (fps)	TEMP. (°F)	LENGTH (ft)	WIDTH (ft)
T-12	Tank	Chemicals Hydrocarbons		0.060	0.045										
T-13	Tank	Water		-	-										
T-14	Tank	Water		-	-										
T-15	Tank	Hydrocarbons		0.641	0.485										
T-16	Tank	Water		-	-										
T-17	Tank	Water		-	-										
T-18	Tank	Water		-	-										
E-1	Truck Load	Chemicals Hydrocarbons		32.000	0.073										
E-2	Truck Load	Gasoline		32.000	0.018										
E-3	Truck Load	Hydrocarbons		32.000	0.050										
E-4	Truck Load	Hydrocarbons		32.000	0.275										

GROUND ELEVATION OF FACILITY ABOVE MEAN SEA LEVEL . 10 feet.
TACB STANDARD CONDITIONS ARE 68° F AND 14.7 PSIA [RULE 131.01.00.001(55)]

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3. Concentration data is required for all gaseous components. Show concentration in volume percent of total gas stream.
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7. Supply additional information as follows if appropriate:
   (a) Stack exit configuration other than a round vertical stack. Show length and width for a rectangular stack. Indicate if horizontal discharge with a note.
   (b) Stack's height above supporting or adjacent structures if structure is within 3 "stack heights above ground" of stack.
   (c) If emission point is a flare, show flare data on Table B.
8. Normally used for fugitive sources. Show dimensions of a minimum size rectangle which will "enclose" all fugitive sources included in this emission point number

668000

EMISSION SOURCES

DATE April 198

Review of applications and issuance of permits will be expedited by supplying all necessary information requested on this Table.

AIR CONTAMINANT DATA						EMISSION POINT DISCHARGE PARAMETERS										
EMISSION POINT [1]		CHEMICAL COMPOSITION OF TOTAL STREAM		AIR CONTAMINANT EMISSION RATE		UTM COORDINATES OF EMISSION PT. [6]			STACK SOURCES [7]					AREA SOURCES [8]	
									HEIGHT ABOVE GROUND (ft)	HEIGHT ABOVE STRUCT. (ft)	EXIT DATA				
NUMBER	NAME	COMPONENT OR AIR CONTAMINANT NAME [2]	CONC. (%v) [3]	#/HR [4]	TONS/YR [5]	ZONE	EAST (meters)	NORTH (meters)			DIA. (ft)	VEL. (fps)	TEMP. (°F)	LENGTH (ft)	WIDTH (ft)
H-1	Water Heater	Particulates		2.33	0.171										
		SO_2		165.10	12.135										
		SO_3		2.33	0.171										
		CO		11.63	0.855										
		Hydrocarbons		1.16	0.085										
		NO_2		25.58	1.88										

GROUND ELEVATION OF FACILITY ABOVE MEAN SEA LEVEL - 10 feet.
TACB STANDARD CONDITIONS ARE 68° F AND 14.7 PSIA (RULE 131.01.00.001(55))

General Instructions:

1. Identify each emission point with a unique number for this plant site, consistent with emission point identification used on plot plan, previous permits and Emissions Inventory Questionnaire. Limit emission point number to 8 character spaces. For each emission point use as many lines as necessary to list air contaminant data. Typical emission point names are: heater, vent, boiler, tank, reactor, separator, baghouse, fugitive, etc. Abbreviations are OK.
2. Typical component names are: air, H_2O, nitrogen, oxygen, CO_2, CO, NO_x, SO_2, hexane, particulate matter (PM), etc. Abbreviations are OK.
3. Concentration data is required for all gaseous components. Show concentration in volume percent of total gas stream.
4. Pounds per hour (# /HR) is maximum emission rate expected by applicant.
5. Tons per year (T/Y) is annual maximum emission rate expected by applicant, which takes into account process operating schedule.
6. As a minimum applicant must furnish a facility plot plan drawn to scale showing a plant benchmark, latitude and longitude correct to the nearest second for the benchmark, and all emission points dimensioned with respect to the benchmark as required by General Application, Form PI-1. This information is essential for calculation of emission point UTM coordinates. Please show emission point UTM coordinates if known.
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   (a) Stack exit configuration other than a round vertical stack. Show length and width for a rectangular stack. Indicate if horizontal discharge with a note.
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   (c) If emission point is a flare, show flare data on Table B.
8. Normally used for fugitive sources. Show dimensions of a minimum size rectangle which will "enclose" all fugitive sources included in this emission point number.

006000

RECORD OF FILE REVIEW

PLEASE COMPLETE THE FOLLOWING INFORMATION:

Your name Bob CASALE

Representing

Address

Company name SELF

Permit number X3561 OR Compliance account no. BL0118V

Assisted by R12, Region 7

Date 10/9/89

TABLE 6

BOILERS AND HEATERS

Type of Device: Water Heater		Manufacturer: F & T	
Number from flow diagram: H-1		Model Number: TX-115841	

CHARACTERISTICS OF INPUT

Type Fuel	Chemical Composition (% by Weight)	Inlet Air Temp °F (after preheat)	Fuel Flow Rate (scfm* or lb/hr)	
Diesel Oil		No Preheat	Average 5,000 lb/hr	Design Maximum 8,000 Lb/Hr.
		Gross Heating Value of Fuel (specify units) 19,750 Btu/Lb	Total Air Supplied and Excess Air: Average ____ scfm* 25 % excess (vol)	Design Maximum ____ scfm* 100 % excess (vol)

HEAT TRANSFER MEDIUM

Type Transfer Medium (Water, oil, etc.)	Temperature °F		Pressure (psia)		Flow Rate (specify units)	
	Input	Output	Input	Output	Average	Design Maximum
Water	Ambient	200°F	164 psia	164 psia	10.4 GPM	17.3 GPM

OPERATING CHARACTERISTICS

Ave. Fire Box Temp. at max. firing rate	Fire Box Volume ($ft.^3$), (from drawing)	Gas Velocity in Fire Box (ft/sec) at max firing rate	Residence Time in Fire Box at max firing rate (sec)
1300°F	19 2 cu. ft. approx.		1.82 sec.

STACK PARAMETERS

Stack Diameters	Stack Height	Stack Gas Velocity (ft/sec)		Stack Gas	Exhaust
		(@Ave.Fuel Flow Rate)	(@Max.Fuel Flow Rate)	Temp °F	scfm
30"	10 ft.		21.4 ft/sec	600°F	6300

CHARACTERISTICS OF OUTPUT

Material	Chemical Composition of Exit Gas Released (% by Volume)	
Particulate	2.33 lb/hr	342 lb/yr
SO2	165.10	24270
SO3	2.33	342
CO	11.63	1710
Hydrocarbons	1.16	170
NO2	25.58	3760

Attach an explanation on how temperature, air flow rate, excess air or other operating variables are controlled.

Also supply an assembly drawing, dimensioned and to scale, in plan, elevation, and as many sections as are needed to show clearly the operation of the combustion unit. Show interior dimensions and features of the equipment necessary to calculate in performance.

* Standard Conditions: 70°F, 14.7 psia

TABLE 7

£06000

STORAGE TANK SUMMARY

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING AND CONSTRUCTION, INC.

2. TANK LOCATION: Freeport, Texas

3. TANK IDENTIFICATION (NUMBER OR NAME): T-1 Diesel Oil Day Tank

4. TANK CAPACITY: BARRELS ____ 1,008 GALLONS

5. TANK DIMENSIONS: DIAMETER 3'8" HEIGHT ____ LENGTH 12'0" WIDTH ____

6. TANK SHAPE: CYLINDRICAL [X] SPHERICAL [ ] OTHER SHAPE [ ] DESCRIBE ____

7. TANK MATERIALS OF CONSTRUCTION: STEEL [X] WOOD [ ] OTHER [ ] SPECIFY ____

8. TANK PAINT: CHALKING WHITE [ ] LIGHT GREY [X] ALUMINUM [ ] DARK COLOR OR NO PAINT [ ]

9. TANK CONDITION: GOOD [ ] FAIR [X] POOR [ ]

10. TANK STATUS: NEW CONSTRUCTION [ ] ALTERATION [ ] Existing

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF [X] FLOATING ROOF [ ] PRESSURE [ ] OPEN TOP [ ] INTERNALLY HEATED [ ] INSULATED [ ] UNDERGROUND [ ] OTHER [ ]

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
TYPE OF ROOF: DOUBLE DECK [ ] PONTOON [ ] OTHER [ ] DESCRIBE ____
TYPE OF SEAL: SINGLE [ ] DOUBLE [ ] OTHER [ ] DESCRIBE ____
TYPE OF SHELL CONSTRUCTION: RIVETED [ ] WELDED [ ] OTHER [ ] DESCRIBE ____

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

	Number	Pressure Setting	Vacuum Setting	Discharging To: (Check) Atmosphere	Vapor Control	Flare
Combination						
Pressure						
Vacuum						
Open	1			X		

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK: DIESEL OIL
DENSITY: ____ LBS/GAL. (OR) 40 °A.P.I.

16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK:
MINIMUM TEMPERATURE ____ °F MAXIMUM TEMPERATURE ____ °F Ambient

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
VAPOR PRESSURE: ____ LBS. REID (OR) 0.02 LBS. PER SQ. IN. ABSOLUTE AT 90 °F
INITIAL BOILING POINT: ____ °F
FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: ____ °F

18. OPERATIONAL DATA:
MAXIMUM FILLING RATE: ____ BARRELS PER HOUR (OR) ____ GALLONS PER HOUR
AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) 2 FT
AVERAGE THROUGHPUT: ____ BARRELS PER DAY (OR) ____ GALLONS PER DAY
TANK TURNOVERS PER YEAR: 20

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
NAME OF SOLVENT: ____ NAME OF MATERIAL DISSOLVED: ____
CONCENTRATION OF MATERIAL DISSOLVED: ____ % BY WEIGHT (OR) ____ % BY VOLUME (OR ____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
IDENTIFY THE MATERIAL: ____
PRESSURE AT WHICH MATERIAL IS STORED: ____ LBS. PER SQ. IN. GAGE AT ____ °F

FORM PI-2 (72-9)

TABLE 7

906000

STORAGE TANK SUMMARY

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING & CONSTRUCTION, INC.

2. TANK LOCATION: FREEPORT, TEXAS

3. TANK IDENTIFICATION (NUMBER OR NAME): T-2 Main Diesel Oil Storage Tank

4. TANK CAPACITY: BARRELS _____ GALLONS 19,140

5. TANK DIMENSIONS: DIAMETER 10'7" HEIGHT 29'0" LENGTH _____ WIDTH _____

6. TANK SHAPE: CYLINDRICAL [X] SPHERICAL [ ] OTHER SHAPE [ ] DESCRIBE _____

7. TANK MATERIALS OF CONSTRUCTION: STEEL [X] WOOD [ ] OTHER [ ] SPECIFY _____

8. TANK PAINT: CHALKING WHITE [ ] LIGHT GREY OR BLUE [X] ALUMINUM [ ] DARK COLOR OR NO PAINT [ ]

9. TANK CONDITION: GOOD [ ] FAIR [X] POOR [ ]

10. TANK STATUS: NEW CONSTRUCTION [ ] ALTERATION [ ] Existing

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF [X] PRESSURE [ ] INTERNALLY HEATED [ ] UNDERGROUND [ ]
FLOATING ROOF [ ] OPEN TOP [ ] INSULATED [ ] OTHER [ ]

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
TYPE OF ROOF: DOUBLE DECK [ ] PONTOON [ ] OTHER [ ] DESCRIBE _____
TYPE OF SEAL: SINGLE [ ] DOUBLE [ ] OTHER [ ] DESCRIBE _____
TYPE OF SHELL CONSTRUCTION: RIVETED [ ] WELDED [ ] OTHER [ ] DESCRIBE _____

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

	NUMBER	PRESSURE SETTING	VACUUM SETTING	DISCHARGING TO: (CHECK) ATMOSPHERE	VAPOR CONTROL	FLARE
COMBINATION						
PRESSURE						
VACUUM						
OPEN	1			X		

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK: Diesel Oil DENSITY: _____ LBS/GAL. (OR) 40 °A.P.I.

16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK:
MINIMUM TEMPERATURE _____ °F MAXIMUM TEMPERATURE _____ °F Ambient

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
VAPOR PRESSURE: _____ LBS. REID (OR) 0.02 LBS. PER SQ. IN. ABSOLUTE AT 90 °F
INITIAL BOILING POINT: _____ °F
FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: _____ °F

18. OPERATIONAL DATA:
MAXIMUM FILLING RATE: _____ BARRELS PER HOUR (OR) _____ GALLONS PER HOUR
AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) 5 FT
AVERAGE THROUGHPUT: _____ BARRELS PER DAY (OR) _____ GALLONS PER DAY
TANK TURNOVERS PER YEAR: 2

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
NAME OF SOLVENT: _____ NAME OF MATERIAL DISSOLVED: _____
CONCENTRATION OF MATERIAL DISSOLVED: _____ % BY WEIGHT (OR) _____ % BY VOLUME (OR _____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
IDENTIFY THE MATERIAL: _____
PRESSURE AT WHICH MATERIAL IS STORED: _____ LBS. PER SQ. IN. GAGE AT _____ °F

TABLE 7

STORAGE TANK SUMMARY

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING & CONSTRUCTION, INC.

2. TANK LOCATION: FREEPORT, TEXAS

3. TANK IDENTIFICATION (NUMBER OR NAME): T-3 Fresh Water Tank

4. TANK CAPACITY: BARRELS _____ GALLONS 22,400

5. TANK DIMENSIONS: DIAMETER 15'3½" HEIGHT 16'0" LENGTH _____ WIDTH _____

6. TANK SHAPE: CYLINDRICAL [X] SPHERICAL [ ] OTHER SHAPE [ ] DESCRIBE _____

7. TANK MATERIALS OF CONSTRUCTION: STEEL [X] WOOD [ ] OTHER [ ] SPECIFY _____

8. TANK PAINT: CHALKING WHITE [ ] LIGHT GREY OR BLUE [X] ALUMINUM [ ] DARK COLOR OR NO PAINT [ ]

9. TANK CONDITION: GOOD [ ] FAIR [X] POOR [ ]

10. TANK STATUS: NEW CONSTRUCTION [ ] ALTERATION [ ] Existing

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF [X] PRESSURE [ ] INTERNALLY HEATED [ ] UNDERGROUND [ ]
FLOATING ROOF [ ] OPEN TOP [ ] INSULATED [ ] OTHER [ ]

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
TYPE OF ROOF: DOUBLE DECK [ ] PONTOON [ ] OTHER [ ] DESCRIBE _____
TYPE OF SEAL: SINGLE [ ] DOUBLE [ ] OTHER [ ] DESCRIBE _____
TYPE OF SHELL CONSTRUCTION: RIVETED [ ] WELDED [ ] OTHER [ ] DESCRIBE _____

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

	NUMBER	PRESSURE SETTING	VACUUM SETTING	DISCHARGING TO: (CHECK) ATMOSPHERE	VAPOR CONTROL	FLARE
COMBINATION						
PRESSURE						
VACUUM						
OPEN	1			X		

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK: Water
DENSITY: 8.34 LBS/GAL. (OR) _____ °A.P.I.

16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK:
MINIMUM TEMPERATURE _____ °F MAXIMUM TEMPERATURE _____ °F Ambient

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
VAPOR PRESSURE: _____ LBS. REID (OR) _____ LBS. PER SQ. IN. ABSOLUTE AT _____ °F
INITIAL BOILING POINT: _____ °F
FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: _____ °F

18. OPERATIONAL DATA:
MAXIMUM FILLING RATE: _____ BARRELS PER HOUR (OR) _____ GALLONS PER HOUR
AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) _____ FT
AVERAGE THROUGHPUT: _____ BARRELS PER DAY (OR) _____ GALLONS PER DAY
TANK TURNOVERS PER YEAR: _____

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
NAME OF SOLVENT: _____ NAME OF MATERIAL DISSOLVED: _____
CONCENTRATION OF MATERIAL DISSOLVED: _____ % BY WEIGHT (OR) _____ % BY VOLUME (OR _____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
IDENTIFY THE MATERIAL: _____
PRESSURE AT WHICH MATERIAL IS STORED: _____ LBS. PER SQ. IN. GAGE AT _____ °F

TABLE 7

STORAGE TANK SUMMARY

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING & CONSTRUCTION, INC.

2. TANK LOCATION: FREEPORT, TEXAS

3. TANK IDENTIFICATION (NUMBER OR NAME): T-4 Wash Water Vacuum Tank

4. TANK CAPACITY: BARRELS _____ GALLONS 11,770

5. TANK DIMENSIONS: DIAMETER 7'0" HEIGHT _____ LENGTH 36'0" WIDTH _____

6. TANK SHAPE: CYLINDRICAL [X] SPHERICAL [ ] OTHER SHAPE [ ] DESCRIBE _____

7. TANK MATERIALS OF CONSTRUCTION: STEEL [X] WOOD [ ] OTHER [ ] SPECIFY _____

8. TANK PAINT: CHALKING WHITE [ ] LIGHT GREY OR SILVER [X] ALUMINUM [ ] DARK COLOR OR NO PAINT [ ]

9. TANK CONDITION: GOOD [ ] FAIR [X] POOR [ ]

10. TANK STATUS: NEW CONSTRUCTION [ ] ALTERATION [ ] Existing

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF [ ] PRESSURE [ ] INTERNALLY HEATED [ ] UNDERGROUND [ ]
FLOATING ROOF [ ] OPEN TOP [ ] INSULATED [X] OTHER [ ]

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
TYPE OF ROOF: DOUBLE DECK [ ] PONTOON [ ] OTHER [ ] DESCRIBE _____
TYPE OF SEAL: SINGLE [ ] DOUBLE [ ] OTHER [ ] DESCRIBE _____
TYPE OF SHELL CONSTRUCTION: RIVETED [ ] WELDED [ ] OTHER [ ] DESCRIBE _____

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

None

	Number	Pressure Setting	Vacuum Setting	Discharging To: (Check) Atmosphere	Vapor Control	Flare
Combination						
Pressure						
Vacuum						
Open						

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK: Water
DENSITY: 8.34 LBS/GAL. (OR) _____ °A.P.I.

16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK:
MINIMUM TEMPERATURE _____ °F MAXIMUM TEMPERATURE _____ °F Ambient

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
VAPOR PRESSURE: _____ LBS. REID (OR) _____ LBS. PER SQ. IN. ABSOLUTE AT _____ °F
INITIAL BOILING POINT: _____ °F
FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: _____ °F

18. OPERATIONAL DATA:
MAXIMUM FILLING RATE: _____ BARRELS PER HOUR (OR) _____ GALLONS PER HOUR
AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) _____ FT
AVERAGE THROUGHPUT: _____ BARRELS PER DAY (OR) _____ GALLONS PER DAY
TANK TURNOVERS PER YEAR: _____

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
NAME OF SOLVENT: _____ NAME OF MATERIAL DISSOLVED: _____
CONCENTRATION OF MATERIAL DISSOLVED: _____ % BY WEIGHT (OR) _____ % BY VOLUME (OR _____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
IDENTIFY THE MATERIAL: _____
PRESSURE AT WHICH MATERIAL IS STORED: _____ LBS. PER SQ. IN. GAGE AT _____ °F

TABLE 7

STORAGE TANK SUMMARY

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING & CONSTRUCTION, INC.

2. TANK LOCATION: FREEPORT, TEXAS

3. TANK IDENTIFICATION (NUMBER OR NAME): T-5 Solids Knockout Pot

4. TANK CAPACITY: BARRELS ____ GALLONS 1,000

5. TANK DIMENSIONS: DIAMETER 5'0" HEIGHT ____ LENGTH 6'8" WIDTH ____

6. TANK SHAPE: CYLINDRICAL [X] SPHERICAL [ ] OTHER SHAPE [ ] DESCRIBE ____

7. TANK MATERIALS OF CONSTRUCTION: STEEL [X] WOOD [ ] OTHER [ ] SPECIFY ____

8. TANK PAINT: CHALKING WHITE [ ] YELLOW [ ] ALUMINUM [ ] DARK COLOR OR NO PAINT [ ]

9. TANK CONDITION: GOOD [X] FAIR [ ] POOR [ ]

10. TANK STATUS: NEW CONSTRUCTION [ ] ALTERATION [ ] Existing

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF [ ] PRESSURE [X] INTERNALLY HEATED [ ] UNDERGROUND [ ]
FLOATING ROOF [ ] OPEN TOP [ ] INSULATED [ ] OTHER [ ]

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
TYPE OF ROOF: DOUBLE DECK [ ] PONTOON [ ] OTHER [ ] DESCRIBE ____
TYPE OF SEAL: SINGLE [ ] DOUBLE [ ] OTHER [ ] DESCRIBE ____
TYPE OF SHELL CONSTRUCTION: RIVETED [ ] WELDED [ ] OTHER [ ] DESCRIBE ____

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:
None

	Number	Pressure Setting	Vacuum Setting	Discharging To: (Check) Atmosphere	Vapor Control	Flare
Combination						
Pressure						
Vacuum						
Open						

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK:
Water
DENSITY: ____ LBS/GAL. (OR) ____ °A.P.I.

16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK:
MINIMUM TEMPERATURE ____ °F MAXIMUM TEMPERATURE ____ °F Ambient

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
VAPOR PRESSURE: ____ LBS. REID (OR) ____ LBS. PER SQ. IN. ABSOLUTE AT ____ °F
INITIAL BOILING POINT: ____ °F
FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: ____ °F

18. OPERATIONAL DATA:
MAXIMUM FILLING RATE: ____ BARRELS PER HOUR (OR) ____ GALLONS PER HOUR
AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) ____ FT
AVERAGE THROUGHPUT: ____ BARRELS PER DAY (OR) ____ GALLONS PER DAY
TANK TURNOVERS PER YEAR: ____

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
NAME OF SOLVENT: ____ NAME OF MATERIAL DISSOLVED: ____
CONCENTRATION OF MATERIAL DISSOLVED: ____ % BY WEIGHT (OR) ____ % BY VOLUME (OR ____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
IDENTIFY THE MATERIAL: ____
PRESSURE AT WHICH MATERIAL IS STORED: ____ LBS. PER SQ. IN. GAGE AT ____ °F

TABLE 7

STORAGE TANK SUMMARY

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING & CONSTRUCTION, INC.

2. TANK LOCATION: FREEPORT, TEXAS

3. TANK IDENTIFICATION (NUMBER OR NAME): T-6 Water Recycle Tank

4. TANK CAPACITY: BARRELS _____ GALLONS 19,323

5. TANK DIMENSIONS: DIAMETER 10'6" HEIGHT _____ LENGTH 29'6" WIDTH _____

6. TANK SHAPE: CYLINDRICAL [X] SPHERICAL [ ] OTHER SHAPE [ ] DESCRIBE _____

7. TANK MATERIALS OF CONSTRUCTION: STEEL [X] WOOD [ ] OTHER [ ] SPECIFY _____

8. TANK PAINT: CHALKING WHITE [ ] LIGHT GREY OR BLUE [X] ALUMINUM [ ] DARK COLOR OR NO PAINT [ ]

9. TANK CONDITION: GOOD [ ] FAIR [X] POOR [ ]

10. TANK STATUS: NEW CONSTRUCTION [ ] ALTERATION [ ] Existing

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF [X] PRESSURE [ ] INTERNALLY HEATED [ ] UNDERGROUND [ ]
FLOATING ROOF [ ] OPEN TOP [ ] INSULATED [ ] OTHER [ ]

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
TYPE OF ROOF: DOUBLE DECK [ ] PONTOON [ ] OTHER [ ] DESCRIBE _____
TYPE OF SEAL: SINGLE [ ] DOUBLE [ ] OTHER [ ] DESCRIBE _____
TYPE OF SHELL CONSTRUCTION: RIVETED [ ] WELDED [ ] OTHER [ ] DESCRIBE _____

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

	NUMBER	PRESSURE SETTING	VACUUM SETTING	DISCHARGING TO: (CHECK) ATMOSPHERE	VAPOR CONTROL	FLARE
COMBINATION						
PRESSURE						
VACUUM						
OPEN	1			X		

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK: Wash Water DENSITY: 8.34 LBS/GAL. (OR) _____ °A.P.I.

16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK:
MINIMUM TEMPERATURE _____ °F MAXIMUM TEMPERATURE _____ °F Ambient

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
VAPOR PRESSURE: _____ LBS. REID (OR) _____ LBS. PER SQ. IN. ABSOLUTE AT _____ °F
INITIAL BOILING POINT: _____ °F
FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: _____ °F

18. OPERATIONAL DATA:
MAXIMUM FILLING RATE: _____ BARRELS PER HOUR (OR) 3300 GALLONS PER HOUR
AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) 2 FT
AVERAGE THROUGHPUT: _____ BARRELS PER DAY (OR) _____ GALLONS PER DAY
TANK TURNOVERS PER YEAR: 20

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
NAME OF SOLVENT: Water NAME OF MATERIAL DISSOLVED: Hydrocarbons, Chemicals
CONCENTRATION OF MATERIAL DISSOLVED: 0.1 % BY WEIGHT (OR) _____ % BY VOLUME (OR) _____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
IDENTIFY THE MATERIAL: _____
PRESSURE AT WHICH MATERIAL IS STORED: _____ LBS. PER SQ. IN. GAGE AT _____ °F

TABLE 7

STORAGE TANK SUMMARY

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING & CONSTRUCTION, INC.

2. TANK LOCATION: FREEPORT, TEXAS

3. TANK IDENTIFICATION (NUMBER OR NAME): T-7 Stripped Oil Settling Tank

4. TANK CAPACITY: BARRELS _____ GALLONS 32,092

5. TANK DIMENSIONS: DIAMETER _____ HEIGHT 9'5" LENGTH 40'0" WIDTH 11'10"

6. TANK SHAPE: CYLINDRICAL ☐ SPHERICAL ☐ OTHER SHAPE ☒ DESCRIBE RECTANGULAR

7. TANK MATERIALS OF CONSTRUCTION: STEEL ☒ WOOD ☐ OTHER ☐ SPECIFY _____

8. TANK PAINT: CHALKING WHITE ☐ LIGHT GREY ~~OR BLUE~~ ☒ ALUMINUM ☐ DARK COLOR OR NO PAINT ☐

9. TANK CONDITION: GOOD ☐ FAIR ☒ POOR ☐

10. TANK STATUS: NEW CONSTRUCTION ☐ ALTERATION ☐ Existing

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF ☒ PRESSURE ☐ INTERNALLY HEATED ☐ UNDERGROUND ☐
FLOATING ROOF ☐ OPEN TOP ☐ INSULATED ☐ OTHER ☐

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
TYPE OF ROOF: DOUBLE DECK ☐ PONTOON ☐ OTHER ☐ DESCRIBE _____
TYPE OF SEAL: SINGLE ☐ DOUBLE ☐ OTHER ☐ DESCRIBE _____
TYPE OF SHELL CONSTRUCTION: RIVETED ☐ WELDED ☐ OTHER ☐ DESCRIBE _____

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

	NUMBER	PRESSURE SETTING	VACUUM SETTING	DISCHARGING TO: (CHECK) ATMOSPHERE	VAPOR CONTROL	FLARE
COMBINATION	1	1.0 PSI	0.5 PSI	X		
PRESSURE						
VACUUM						
OPEN						

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK: Water, Hydrocarbons
DENSITY: _____ LBS/GAL. (OR) _____ °A.P.I.

16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK:
MINIMUM TEMPERATURE ____ °F MAXIMUM TEMPERATURE ____ °F Ambient

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
VAPOR PRESSURE: _____ LBS. REID (OR) _____ LBS. PER SQ. IN. ABSOLUTE AT _____ °F
INITIAL BOILING POINT: _____ °F
FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: _____ °F

18. OPERATIONAL DATA:
MAXIMUM FILLING RATE: _____ BARRELS PER HOUR (OR) 3300 GALLONS PER HOUR
AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) 5 FT
AVERAGE THROUGHPUT: _____ BARRELS PER DAY (OR) _____ GALLONS PER DAY
TANK TURNOVERS PER YEAR: 2

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
NAME OF SOLVENT: _____ NAME OF MATERIAL DISSOLVED: _____
CONCENTRATION OF MATERIAL DISSOLVED: _____ % BY WEIGHT (OR) _____ % BY VOLUME (OR _____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
IDENTIFY THE MATERIAL: _____
PRESSURE AT WHICH MATERIAL IS STORED: _____ LBS. PER SQ. IN. GAGE AT _____ °F

TABLE 7

STORAGE TANK SUMMARY

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING & CONSTRUCTION, INC.

2. TANK LOCATION: FREEPORT, TEXAS

3. TANK IDENTIFICATION (NUMBER OR NAME): T-8 Gasoline Storage Tank

4. TANK CAPACITY: BARRELS _____ GALLONS 3,117

5. TANK DIMENSIONS: DIAMETER 5'4" HEIGHT _____ LENGTH 18'4" WIDTH _____

6. TANK SHAPE: CYLINDRICAL [X] SPHERICAL [ ] OTHER SHAPE [ ] DESCRIBE _____

7. TANK MATERIALS OF CONSTRUCTION: STEEL [X] WOOD [ ] OTHER [ ] SPECIFY _____

8. TANK PAINT: CHALKING WHITE [ ] LIGHT GREY OR KHAKI [X] ALUMINUM [ ] DARK COLOR OR NO PAINT [ ]

9. TANK CONDITION: GOOD [ ] FAIR [X] POOR [ ]

10. TANK STATUS: NEW CONSTRUCTION [ ] ALTERATION [ ] Existing

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF [X] PRESSURE [ ] INTERNALLY HEATED [ ] UNDERGROUND [ ]
FLOATING ROOF [ ] OPEN TOP [ ] INSULATED [ ] OTHER [ ]

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
TYPE OF ROOF: DOUBLE DECK [ ] PONTOON [ ] OTHER [ ] DESCRIBE _____
TYPE OF SEAL: SINGLE [ ] DOUBLE [ ] OTHER [ ] DESCRIBE _____
TYPE OF SHELL CONSTRUCTION: RIVETED [ ] WELDED [ ] OTHER [ ] DESCRIBE _____

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

	Number	Pressure Setting	Vacuum Setting	Discharging To: (Check) Atmosphere	Vapor Control	Flare
Combination						
Pressure						
Vacuum						
Open	1			X		

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK: Gasoline DENSITY: _____ LBS/GAL. (OR) _____ °A.P.I.

16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK:
MINIMUM TEMPERATURE _____ °F MAXIMUM TEMPERATURE _____ °F Ambient

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
VAPOR PRESSURE: 10.0 LBS. REID (OR) _____ LBS. PER SQ. IN. ABSOLUTE AT 90 °F
INITIAL BOILING POINT: _____ °F
FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: _____ °F

18. OPERATIONAL DATA:
MAXIMUM FILLING RATE: _____ BARRELS PER HOUR (OR) 3300 GALLONS PER HOUR
AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) 3 FT
AVERAGE THROUGHPUT: _____ BARRELS PER DAY (OR) _____ GALLONS PER DAY
TANK TURNOVERS PER YEAR: 4

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
NAME OF SOLVENT: _____ NAME OF MATERIAL DISSOLVED: _____
CONCENTRATION OF MATERIAL DISSOLVED: _____ % BY WEIGHT (OR) _____ % BY VOLUME (OR _____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
IDENTIFY THE MATERIAL: _____
PRESSURE AT WHICH MATERIAL IS STORED: _____ LBS. PER SQ. IN. GAGE AT _____ °F

TABLE 7

STORAGE TANK SUMMARY

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING & CONSTRUCTION, INC.

2. TANK LOCATION: FREEPORT, TEXAS

3. TANK IDENTIFICATION (NUMBER OR NAME): T-9 Gasoline Storage Tan

4. TANK CAPACITY: BARRELS ____ GALLONS 4,771

5. TANK DIMENSIONS: DIAMETER 6'9" HEIGHT ____ LENGTH 17'8" WIDTH ____

6. TANK SHAPE: CYLINDRICAL [X] SPHERICAL [ ] OTHER SHAPE [ ] DESCRIBE ____

7. TANK MATERIALS OF CONSTRUCTION: STEEL [X] WOOD [ ] OTHER [ ] SPECIFY ____

8. TANK PAINT: CHALKING WHITE [ ] LIGHT GREY [X] ALUMINUM [ ] DARK COLOR OR NO PAINT [ ]

9. TANK CONDITION: GOOD [ ] FAIR [X] POOR [ ]

10. TANK STATUS: NEW CONSTRUCTION [ ] ALTERATION [ ] Existing

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF [X] PRESSURE [ ] INTERNALLY HEATED [ ] UNDERGROUND [ ]
FLOATING ROOF [ ] OPEN TOP [ ] INSULATED [ ] OTHER [ ]

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
TYPE OF ROOF: DOUBLE DECK [ ] PONTOON [ ] OTHER [ ] DESCRIBE ____
TYPE OF SEAL: SINGLE [ ] DOUBLE [ ] OTHER [ ] DESCRIBE ____
TYPE OF SHELL CONSTRUCTION: RIVETED [ ] WELDED [ ] OTHER [ ] DESCRIBE ____

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

	NUMBER	PRESSURE SETTING	VACUUM SETTING	DISCHARGING TO: (CHECK) ATMOSPHERE	VAPOR CONTROL	FLARE
COMBINATION						
PRESSURE						
VACUUM						
OPEN	1			X		

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK: Gasoline
DENSITY: ____ LBS/GAL. (OR) ____ °A.P.I.

16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK:
MINIMUM TEMPERATURE ____ °F MAXIMUM TEMPERATURE ____ °F Ambient

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
VAPOR PRESSURE: 10.0 LBS. REID (OR) ____ LBS. PER SQ. IN. ABSOLUTE AT 90 °F
INITIAL BOILING POINT: ____ °F
FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: ____ °F

18. OPERATIONAL DATA:
MAXIMUM FILLING RATE: ____ BARRELS PER HOUR (OR) 3300 GALLONS PER HOUR
AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) 3 FT
AVERAGE THROUGHPUT: ____ BARRELS PER DAY (OR) ____ GALLONS PER DAY
TANK TURNOVERS PER YEAR: 2

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
NAME OF SOLVENT: ____ NAME OF MATERIAL DISSOLVED: ____
CONCENTRATION OF MATERIAL DISSOLVED: ____ % BY WEIGHT (OR) ____ % BY VOLUME (OR ____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
IDENTIFY THE MATERIAL: ____
PRESSURE AT WHICH MATERIAL IS STORED: ____ LBS. PER SQ. IN. GAGE AT ____ °F

TABLE 7

STORAGE TANK SUMMARY

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING & CONSTRUCTION, INC.

2. TANK LOCATION: FREEPORT, TEXAS

3. TANK IDENTIFICATION (NUMBER OR NAME): T-10 Product Storage Tank

4. TANK CAPACITY: BARRELS _____ GALLONS 5,520

5. TANK DIMENSIONS: DIAMETER 5'3" HEIGHT _____ LENGTH 34'6" WIDTH _____

6. TANK SHAPE: CYLINDRICAL [X] SPHERICAL [ ] OTHER SHAPE [ ] DESCRIBE _____

7. TANK MATERIALS OF CONSTRUCTION: STEEL [X] WOOD [ ] OTHER [ ] SPECIFY _____

8. TANK PAINT: CHALKING WHITE [ ] LIGHT GREY [X] ALUMINUM [ ] DARK COLOR OR NO PAINT [ ]

9. TANK CONDITION: GOOD [ ] FAIR [X] POOR [ ]

10. TANK STATUS: NEW CONSTRUCTION [ ] ALTERATION [ ] Existing

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF [X] PRESSURE [ ] INTERNALLY HEATED [ ] UNDERGROUND [ ]
FLOATING ROOF [ ] OPEN TOP [ ] INSULATED [ ] OTHER [ ]

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
TYPE OF ROOF: DOUBLE DECK [ ] PONTOON [ ] OTHER [ ] DESCRIBE _____
TYPE OF SEAL: SINGLE [ ] DOUBLE [ ] OTHER [ ] DESCRIBE _____
TYPE OF SHELL CONSTRUCTION: RIVETED [ ] WELDED [ ] OTHER [ ] DESCRIBE _____

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

	Number	Pressure Setting	Vacuum Setting	Discharging To: (Check) Atmosphere	Vapor Control	Flare
Combination						
Pressure						
Vacuum						
Open	1			X		

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK: Hydrocarbons, Chemicals
DENSITY: _____ LBS/GAL. (OR) _____ °A.P.I.

16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK:
MINIMUM TEMPERATURE _____ °F MAXIMUM TEMPERATURE _____ °F Ambient

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
VAPOR PRESSURE: _____ LBS. REID (OR) 2.7 LBS. PER SQ. IN. ABSOLUTE AT 90 °F
INITIAL BOILING POINT: _____ °F Methylethyl Ketone
FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: _____ °F

18. OPERATIONAL DATA:
MAXIMUM FILLING RATE: _____ BARRELS PER HOUR (OR) 55 GALLONS PER HOUR
AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) 4 FT
AVERAGE THROUGHPUT: _____ BARRELS PER DAY (OR) _____ GALLONS PER DAY
TANK TURNOVERS PER YEAR: 5

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
NAME OF SOLVENT: _____ NAME OF MATERIAL DISSOLVED: _____
CONCENTRATION OF MATERIAL DISSOLVED: _____ % BY WEIGHT (OR) _____ % BY VOLUME (OR) _____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
IDENTIFY THE MATERIAL: _____
PRESSURE AT WHICH MATERIAL IS STORED: _____ LBS. PER SQ. IN. GAGE AT _____ °F

TABLE 7

STORAGE TANK SUMMARY

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING & CONSTRUCTION, INC.

2. TANK LOCATION: FREEPORT, TEXAS

3. TANK IDENTIFICATION (NUMBER OR NAME): T-11 Product Storage Tank

4. TANK CAPACITY: BARRELS _____ GALLONS 5,933

5. TANK DIMENSIONS: DIAMETER 5'5" HEIGHT _____ LENGTH 33'4" WIDTH _____

6. TANK SHAPE: CYLINDRICAL [X] SPHERICAL [ ] OTHER SHAPE [ ] DESCRIBE _____

7. TANK MATERIALS OF CONSTRUCTION: STEEL [X] WOOD [ ] OTHER [ ] SPECIFY _____

8. TANK PAINT: CHALKING WHITE [ ] LIGHT GREY ~~OR BLUE~~ [X] ALUMINUM [ ] DARK COLOR OR NO PAINT [ ]

9. TANK CONDITION: GOOD [ ] FAIR [X] POOR [ ]

10. TANK STATUS: NEW CONSTRUCTION [ ] ALTERATION [ ] Existing

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF [X] PRESSURE [ ] INTERNALLY HEATED [ ] UNDERGROUND [ ]
FLOATING ROOF [ ] OPEN TOP [ ] INSULATED [ ] OTHER [ ]

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
TYPE OF ROOF: DOUBLE DECK [ ] PONTOON [ ] OTHER [ ] DESCRIBE _____
TYPE OF SEAL: SINGLE [ ] DOUBLE [ ] OTHER [ ] DESCRIBE _____
TYPE OF SHELL CONSTRUCTION: RIVETED [ ] WELDED [ ] OTHER [ ] DESCRIBE _____

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

	NUMBER	PRESSURE SETTING	VACUUM SETTING	DISCHARGING TO: (CHECK) ATMOSPHERE	VAPOR CONTROL	FLARE
COMBINATION						
PRESSURE						
VACUUM						
OPEN	1			X		

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK: Hydrocarbons, Chemicals
DENSITY: _____ LBS/GAL. (OR) _____ °A.P.I.

16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK:
MINIMUM TEMPERATURE ____ °F MAXIMUM TEMPERATURE ____ °F

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
VAPOR PRESSURE: _____ LBS. REID (OR) 2.7 LBS. PER SQ. IN. ABSOLUTE AT 90 °F Ambient
INITIAL BOILING POINT: _____ °F Methylethyl Ketone
FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: _____ °F

18. OPERATIONAL DATA:
MAXIMUM FILLING RATE: _____ BARRELS PER HOUR (OR) 55 GALLONS PER HOUR
AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) _____ FT
AVERAGE THROUGHPUT: _____ BARRELS PER DAY (OR) _____ GALLONS PER DAY
TANK TURNOVERS PER YEAR: 5

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
NAME OF SOLVENT: _____ NAME OF MATERIAL DISSOLVED: _____
CONCENTRATION OF MATERIAL DISSOLVED: _____ % BY WEIGHT (OR) _____ % BY VOLUME (OR _____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
IDENTIFY THE MATERIAL: _____
PRESSURE AT WHICH MATERIAL IS STORED: _____ LBS. PER SQ. IN. GAGE AT _____ °F

TABLE 7

STORAGE TANK SUMMARY

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING & CONSTRUCTION, INC.

2. TANK LOCATION: FREEPORT, TEXAS

3. TANK IDENTIFICATION (NUMBER OR NAME): T-12 Product Storage Tank

4. TANK CAPACITY: BARRELS _____ GALLONS 5,845

5. TANK DIMENSIONS: DIAMETER 5'3" HEIGHT _____ LENGTH 36'1" WIDTH _____

6. TANK SHAPE: CYLINDRICAL [X] SPHERICAL [ ] OTHER SHAPE [ ] DESCRIBE _____

7. TANK MATERIALS OF CONSTRUCTION: STEEL [X] WOOD [ ] OTHER [ ] SPECIFY _____

8. TANK PAINT: CHALKING WHITE [ ] LIGHT GREY OR BLUE [X] ALUMINUM [ ] DARK COLOR OR NO PAINT [ ]

9. TANK CONDITION: GOOD [ ] FAIR [X] POOR [ ]

10. TANK STATUS: NEW CONSTRUCTION [ ] ALTERATION [ ] Existing

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF [X] PRESSURE [ ] INTERNALLY HEATED [ ] UNDERGROUND [ ]
FLOATING ROOF [ ] OPEN TOP [ ] INSULATED [ ] OTHER [ ]

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
TYPE OF ROOF: DOUBLE DECK [ ] PONTOON [ ] OTHER [ ] DESCRIBE _____
TYPE OF SEAL: SINGLE [ ] DOUBLE [ ] OTHER [ ] DESCRIBE _____
TYPE OF SHELL CONSTRUCTION: RIVETED [ ] WELDED [ ] OTHER [ ] DESCRIBE _____

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

	Number	Pressure Setting	Vacuum Setting	Discharging to: (Check) Atmosphere	Vapor Control	Flare
Combination						
Pressure						
Vacuum						
Open	1			X		

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK: Hydrocarbons, Chemicals
DENSITY: _____ LBS/GAL. (OR) _____ °A.P.I.

16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK:
MINIMUM TEMPERATURE _____ °F MAXIMUM TEMPERATURE _____ °F Ambient

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
VAPOR PRESSURE: _____ LBS. REID (OR) 2.7 LBS. PER SQ. IN. ABSOLUTE AT 90 °F
INITIAL BOILING POINT: _____ °F Methylethyl Ketone
FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: _____ °F

18. OPERATIONAL DATA:
MAXIMUM FILLING RATE: _____ BARRELS PER HOUR (OR) 55 GALLONS PER HOUR
AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) _____ FT
AVERAGE THROUGHPUT: _____ BARRELS PER DAY (OR) _____ GALLONS PER DAY
TANK TURNOVERS PER YEAR: 5

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
NAME OF SOLVENT: _____ NAME OF MATERIAL DISSOLVED: _____
CONCENTRATION OF MATERIAL DISSOLVED: _____ % BY WEIGHT (OR) _____ % BY VOLUME (OR _____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
IDENTIFY THE MATERIAL: _____
PRESSURE AT WHICH MATERIAL IS STORED: _____ LBS. PER SQ. IN. GAGE AT _____ °F

TABLE 7

STORAGE TANK SUMMARY

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING & CONSTRUCTION, INC.

2. TANK LOCATION: FREEPORT, TEXAS

3. TANK IDENTIFICATION (NUMBER OR NAME): T-13 Wash Water Vacuum Tank

4. TANK CAPACITY: BARRELS _____ GALLONS 900

5. TANK DIMENSIONS: DIAMETER 3'0" HEIGHT _____ LENGTH 17'0" WIDTH _____

6. TANK SHAPE: CYLINDRICAL [X] SPHERICAL [ ] OTHER SHAPE [ ] DESCRIBE _____

7. TANK MATERIALS OF CONSTRUCTION: STEEL [X] WOOD [ ] OTHER [ ] SPECIFY _____

8. TANK PAINT: CHALKING WHITE [ ] LIGHT GREY [X] ALUMINUM [ ] DARK COLOR OR NO PAINT [ ]

9. TANK CONDITION: GOOD [X] FAIR [ ] POOR [ ]

10. TANK STATUS: NEW CONSTRUCTION [X] ALTERATION [ ]

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF [X] PRESSURE [X] INTERNALLY HEATED [ ] UNDERGROUND [ ]
FLOATING ROOF [ ] OPEN TOP [ ] INSULATED [ ] OTHER [ ]

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
TYPE OF ROOF: DOUBLE DECK [ ] PONTOON [ ] OTHER [ ] DESCRIBE _____
TYPE OF SEAL: SINGLE [ ] DOUBLE [ ] OTHER [ ] DESCRIBE _____
TYPE OF SHELL CONSTRUCTION: RIVETED [ ] WELDED [ ] OTHER [ ] DESCRIBE _____

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

None

	NUMBER	PRESSURE SETTING	VACUUM SETTING	DISCHARGING TO: (CHECK) ATMOSPHERE	VAPOR CONTROL	FLARE
COMBINATION						
PRESSURE						
VACUUM						
OPEN						

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK:
Water DENSITY: 8.34 LBS/GAL. (OR) _____ °A.P.I.

16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK:
MINIMUM TEMPERATURE _____ °F MAXIMUM TEMPERATURE _____ °F

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
VAPOR PRESSURE: _____ LBS. REID (OR) _____ LBS. PER SQ. IN. ABSOLUTE AT _____ °F
INITIAL BOILING POINT: _____ °F
FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: _____ °F

18. OPERATIONAL DATA:
MAXIMUM FILLING RATE: _____ BARRELS PER HOUR (OR) _____ GALLONS PER HOUR
AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) _____ FT
AVERAGE THROUGHPUT: _____ BARRELS PER DAY (OR) _____ GALLONS PER DAY
TANK TURNOVERS PER YEAR: _____

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
NAME OF SOLVENT: _____ NAME OF MATERIAL DISSOLVED: _____
CONCENTRATION OF MATERIAL DISSOLVED: _____ % BY WEIGHT (OR) _____ % BY VOLUME (OR _____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
IDENTIFY THE MATERIAL: _____
PRESSURE AT WHICH MATERIAL IS STORED: _____ LBS. PER SQ. IN. GAGE AT _____ °F

FORM [illegible]

TABLE 7

STORAGE TANK SUMMARY

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING & CONSTRUCTION, INC.

2. TANK LOCATION: FREEPORT, TEXAS

3. TANK IDENTIFICATION (NUMBER OR NAME): T-14 Wash Water Vacuum Tank

4. TANK CAPACITY: BARRELS ____ GALLONS 6000

5. TANK DIMENSIONS: DIAMETER 7'0" HEIGHT ____ LENGTH 20'0" WIDTH ____

6. TANK SHAPE: CYLINDRICAL [X] SPHERICAL [ ] OTHER SHAPE [ ] DESCRIBE ____

7. TANK MATERIALS OF CONSTRUCTION: STEEL [X] WOOD [ ] OTHER [ ] SPECIFY ____

8. TANK PAINT: CHALKING WHITE [ ] LIGHT GREY ~~OR BLUE~~ [X] ALUMINUM [ ] DARK COLOR OR NO PAINT [ ]

9. TANK CONDITION: GOOD [X] FAIR [ ] POOR [ ]

10. TANK STATUS: NEW CONSTRUCTION [X] ALTERATION [ ]

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF [ ] PRESSURE [X] INTERNALLY HEATED [ ] UNDERGROUND [ ] FLOATING ROOF [ ] OPEN TOP [ ] INSULATED [ ] OTHER [ ]

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
    - TYPE OF ROOF: DOUBLE DECK [ ] PONTOON [ ] OTHER [ ] DESCRIBE ____
    - TYPE OF SEAL: SINGLE [ ] DOUBLE [ ] OTHER [ ] DESCRIBE ____
    - TYPE OF SHELL CONSTRUCTION: RIVETED [ ] WELDED [ ] OTHER [ ] DESCRIBE ____

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

None

	NUMBER	PRESSURE SETTING	VACUUM SETTING	DISCHARGING TO: (CHECK) ATMOSPHERE	VAPOR CONTROL	FLARE
COMBINATION						
PRESSURE						
VACUUM						
OPEN						

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK: Water DENSITY: 8.34 LBS/GAL. (OR) ____ °A.P.I.

16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK: MINIMUM TEMPERATURE ____ °F MAXIMUM TEMPERATURE ____ °F

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
    VAPOR PRESSURE: ____ LBS. REID (OR) ____ LBS. PER SQ. IN. ABSOLUTE AT ____ °F
    INITIAL BOILING POINT: ____ °F
    FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: ____ °F

18. OPERATIONAL DATA:
    MAXIMUM FILLING RATE: ____ BARRELS PER HOUR (OR) ____ GALLONS PER HOUR
    AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) ____ FT
    AVERAGE THROUGHPUT: ____ BARRELS PER DAY (OR) ____ GALLONS PER DAY
    TANK TURNOVERS PER YEAR: ____

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
    NAME OF SOLVENT: ____ NAME OF MATERIAL DISSOLVED: ____
    CONCENTRATION OF MATERIAL DISSOLVED: ____ % BY WEIGHT (OR) ____ % BY VOLUME (OR ____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
    IDENTIFY THE MATERIAL: ____
    PRESSURE AT WHICH MATERIAL IS STORED: ____ LBS. PER SQ. IN. GAGE AT ____ °F

FORM TA-2 (12-9)

TABLE 7

STORAGE TANK SUMMARY

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING & CONSTRUCTION, INC

2. TANK LOCATION: FREEPORT, TEXAS

3. TANK IDENTIFICATION (NUMBER OR NAME): T-15 Slop Oil Tank

4. TANK CAPACITY: 150 BARRELS GALLONS

5. TANK DIMENSIONS: DIAMETER 12'0" HEIGHT 8'0" LENGTH _____ WIDTH _____

6. TANK SHAPE: CYLINDRICAL [X] SPHERICAL [ ] OTHER SHAPE [ ] DESCRIBE _____

7. TANK MATERIALS OF CONSTRUCTION: STEEL [X] WOOD [ ] OTHER [ ] SPECIFY _____

8. TANK PAINT: CHALKING WHITE [ ] LIGHT GREY [X] ALUMINUM [ ] DARK COLOR OR NO PAINT [ ]

9. TANK CONDITION: GOOD [X] FAIR [ ] POOR [ ]

10. TANK STATUS: NEW CONSTRUCTION [X] ALTERATION [ ]

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF [X] PRESSURE [ ] INTERNALLY HEATED [ ] UNDERGROUND [ ]
FLOATING ROOF [ ] OPEN TOP [ ] INSULATED [ ] OTHER [ ]

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
TYPE OF ROOF: DOUBLE DECK [ ] PONTOON [ ] OTHER [ ] DESCRIBE _____
TYPE OF SEAL: SINGLE [ ] DOUBLE [ ] OTHER [ ] DESCRIBE _____
TYPE OF SHELL CONSTRUCTION: RIVETED [ ] WELDED [ ] OTHER [ ] DESCRIBE _____

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

	Number	Pressure Setting	Vacuum Setting	Discharging To: (Check) Atmosphere	Vapor Control	Flare
Combination						
Pressure						
Vacuum						
Open	1			X		

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK: Hydrocarbons
DENSITY: _____ LBS/GAL. (OR) _____ °A.P.I.

16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK:
MINIMUM TEMPERATURE _____ °F MAXIMUM TEMPERATURE _____ °F Ambient

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
VAPOR PRESSURE: _____ LBS. REID (OR) _____ LBS. PER SQ. IN. ABSOLUTE AT _____ °F
INITIAL BOILING POINT: _____ °F
FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: _____ °F

18. OPERATIONAL DATA:
MAXIMUM FILLING RATE: _____ BARRELS PER HOUR (OR) _____ GALLONS PER HOUR
AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) 4 FT
AVERAGE THROUGHPUT: _____ BARRELS PER DAY (OR) _____ GALLONS PER DAY
TANK TURNOVERS PER YEAR: 52

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
NAME OF SOLVENT: _____ NAME OF MATERIAL DISSOLVED: _____
CONCENTRATION OF MATERIAL DISSOLVED: _____ % BY WEIGHT (OR) _____ % BY VOLUME (OR _____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
IDENTIFY THE MATERIAL: _____
PRESSURE AT WHICH MATERIAL IS STORED: _____ LBS. PER SQ. IN. GAGE AT _____ °F

TABLE 7

STORAGE TANK SUMMARY

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING & CONSTRUCTION, INC.

2. TANK LOCATION: FREEPORT, TEXAS

3. TANK IDENTIFICATION (NUMBER OR NAME): T-16 1000 BBL Wash Water Tank

4. TANK CAPACITY: 1000 BARRELS GALLONS

5. TANK DIMENSIONS: DIAMETER 21'6" HEIGHT 16'0" LENGTH _____ WIDTH _____

6. TANK SHAPE: CYLINDRICAL [X] SPHERICAL [ ] OTHER SHAPE [ ] DESCRIBE _____

7. TANK MATERIALS OF CONSTRUCTION: STEEL [X] WOOD [ ] OTHER [ ] SPECIFY _____

8. TANK PAINT: CHALKING WHITE [ ] LIGHT GREY OR BLUE [X] ALUMINUM [ ] DARK COLOR OR NO PAINT [ ]

9. TANK CONDITION: GOOD [X] FAIR [ ] POOR [ ]

10. TANK STATUS: NEW CONSTRUCTION [X] ALTERATION [ ]

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF [ ] PRESSURE [ ] INTERNALLY HEATED [ ] UNDERGROUND [ ]
FLOATING ROOF [ ] OPEN TOP [X] INSULATED [ ] OTHER [ ]

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
TYPE OF ROOF: DOUBLE DECK [ ] PONTOON [ ] OTHER [ ] DESCRIBE _____
TYPE OF SEAL: SINGLE [ ] DOUBLE [ ] OTHER [ ] DESCRIBE _____
TYPE OF SHELL CONSTRUCTION: RIVETED [ ] WELDED [ ] OTHER [ ] DESCRIBE _____

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

	Number	Pressure Setting	Vacuum Setting	Discharging To: (Check) Atmosphere	Vapor Control	Flare
Combination						
Pressure						
Vacuum						
Open	1			X		

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK: Water
DENSITY: 8.34 LBS/GAL. (OR) _____ °A.P.I.

16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK:
MINIMUM TEMPERATURE _____ °F MAXIMUM TEMPERATURE _____ °F AMBIENT

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
VAPOR PRESSURE: _____ LBS. REID (OR) _____ LBS. PER SQ. IN. ABSOLUTE AT _____ °F
INITIAL BOILING POINT: _____ °F
FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: _____ °F

18. OPERATIONAL DATA:
MAXIMUM FILLING RATE: _____ BARRELS PER HOUR (OR) 800 GALLONS PER HOUR
AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) 8 FT
AVERAGE THROUGHPUT: _____ BARRELS PER DAY (OR) _____ GALLONS PER DAY
TANK TURNOVERS PER YEAR: _____

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
NAME OF SOLVENT: _____ NAME OF MATERIAL DISSOLVED: _____
CONCENTRATION OF MATERIAL DISSOLVED: _____ % BY WEIGHT (OR) _____ % BY VOLUME (OR _____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
IDENTIFY THE MATERIAL: _____
PRESSURE AT WHICH MATERIAL IS STORED: _____ LBS. PER SQ. IN. GAGE AT _____ °F

TABLE 7

STORAGE TANK SUMMARY

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING & CONSTRUCTION, INC.

2. TANK LOCATION: FREEPORT, TEXAS

3. TANK IDENTIFICATION (NUMBER OR NAME): T-17 1000 BBL Wash Water Tank

4. TANK CAPACITY: 1000 BARRELS GALLONS

5. TANK DIMENSIONS: DIAMETER 21'6" HEIGHT 16'0" LENGTH ____ WIDTH ____

6. TANK SHAPE: CYLINDRICAL [X] SPHERICAL [ ] OTHER SHAPE [ ] DESCRIBE ____

7. TANK MATERIALS OF CONSTRUCTION: STEEL [X] WOOD [ ] OTHER [ ] SPECIFY ____

8. TANK PAINT: CHALKING WHITE [ ] LIGHT GREY/~~XXXXXX~~ [X] ALUMINUM [ ] DARK COLOR OR NO PAINT [ ]

9. TANK CONDITION: GOOD [X] FAIR [ ] POOR [ ]

10. TANK STATUS: NEW CONSTRUCTION [X] ALTERATION [ ]

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF [ ] FLOATING ROOF [ ] PRESSURE [ ] OPEN TOP [X] INTERNALLY HEATED [ ] INSULATED [ ] UNDERGROUND [ ] OTHER [ ]

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
- TYPE OF ROOF: DOUBLE DECK [ ] PONTOON [ ] OTHER [ ] DESCRIBE ____
- TYPE OF SEAL: SINGLE [ ] DOUBLE [ ] OTHER [ ] DESCRIBE ____
- TYPE OF SHELL CONSTRUCTION: RIVETED [ ] WELDED [ ] OTHER [ ] DESCRIBE ____

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

	NUMBER	PRESSURE SETTING	VACUUM SETTING	DISCHARGING TO: (CHECK) ATMOSPHERE	VAPOR CONTROL	FLARE
COMBINATION						
PRESSURE						
VACUUM						
OPEN	1			X		

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK: Water DENSITY: 8.34 LBS/GAL. (OR) ____ °A.P.I.

16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK: MINIMUM TEMPERATURE ____ °F MAXIMUM TEMPERATURE ____ °F AMBIENT

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
- VAPOR PRESSURE: ____ LBS. REID (OR) ____ LBS. PER SQ. IN. ABSOLUTE AT ____ °F
- INITIAL BOILING POINT: ____ °F
- FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: ____ °F

18. OPERATIONAL DATA:
- MAXIMUM FILLING RATE: ____ BARRELS PER HOUR (OR) 800 GALLONS PER HOUR
- AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) 8 FT
- AVERAGE THROUGHPUT: ____ BARRELS PER DAY (OR) ____ GALLONS PER DAY
- TANK TURNOVERS PER YEAR: ____

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
- NAME OF SOLVENT: ____ NAME OF MATERIAL DISSOLVED: ____
- CONCENTRATION OF MATERIAL DISSOLVED: ____ % BY WEIGHT (OR) ____ % BY VOLUME (OR ____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
- IDENTIFY THE MATERIAL: ____
- PRESSURE AT WHICH MATERIAL IS STORED: ____ LBS. PER SQ. IN. GAGE AT ____ °F

TABLE 7

STORAGE TANK SUMMARY

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING & CONSTRUCTION, INC.

2. TANK LOCATION: FREEPORT, TEXAS

3. TANK IDENTIFICATION (NUMBER OR NAME): T-18 5000 BBL Wash Water Tank

4. TANK CAPACITY: 5000 BARRELS GALLONS

5. TANK DIMENSIONS: DIAMETER 38'7" HEIGHT 24'0" LENGTH _____ WIDTH _____

6. TANK SHAPE: CYLINDRICAL ☒ SPHERICAL ☐ OTHER SHAPE ☐ DESCRIBE _____

7. TANK MATERIALS OF CONSTRUCTION: STEEL ☒ WOOD ☐ OTHER ☐ SPECIFY _____

8. TANK PAINT: CHALKING WHITE ☐ LIGHT GREY ~~OR BLUE~~ XXXXX ☒ ALUMINUM ☐ DARK COLOR OR NO PAINT ☐

9. TANK CONDITION: GOOD ☒ FAIR ☐ POOR ☐

10. TANK STATUS: NEW CONSTRUCTION ☒ ALTERATION ☐

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF ☐ PRESSURE ☐ INTERNALLY HEATED ☐ UNDERGROUND ☐ FLOATING ROOF ☐ OPEN TOP ☒ INSULATED ☐ OTHER ☐

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
TYPE OF ROOF: DOUBLE DECK ☐ PONTOON ☐ OTHER ☐ DESCRIBE _____
TYPE OF SEAL: SINGLE ☐ DOUBLE ☐ OTHER ☐ DESCRIBE _____
TYPE OF SHELL CONSTRUCTION: RIVETED ☐ WELDED ☐ OTHER ☐ DESCRIBE _____

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

	Number	Pressure Setting	Vacuum Setting	Discharging To: (Check) Atmosphere	Vapor Control	Flare
Combination						
Pressure						
Vacuum						
Open	1			X		

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK: Water DENSITY: 8.34 LBS/GAL. (OR) _____ °A.P.I.

16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK: MINIMUM TEMPERATURE _____ °F MAXIMUM TEMPERATURE _____ °F AMBIENT

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
VAPOR PRESSURE: _____ LBS. REID (OR) _____ LBS. PER SQ. IN. ABSOLUTE AT _____ °F
INITIAL BOILING POINT: _____ °F
FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: _____ °F

18. OPERATIONAL DATA:
MAXIMUM FILLING RATE: _____ BARRELS PER HOUR (OR) 800 GALLONS PER HOUR
AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) 12 FT
AVERAGE THROUGHPUT: _____ BARRELS PER DAY (OR) _____ GALLONS PER DAY
TANK TURNOVERS PER YEAR: _____

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
NAME OF SOLVENT: _____ NAME OF MATERIAL DISSOLVED: _____
CONCENTRATION OF MATERIAL DISSOLVED: _____ % BY WEIGHT (OR) _____ % BY VOLUME (OR _____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
IDENTIFY THE MATERIAL: _____
PRESSURE AT WHICH MATERIAL IS STORED: _____ LBS. PER SQ. IN. GAGE AT _____ °F

FORM P1-2 (10-94)

TABLE 7

STORAGE TANK SUMMARY

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING & CONSTRUCTION, INC

2. TANK LOCATION: FREEPORT, TEXAS

3. TANK IDENTIFICATION (NUMBER OR NAME): Oil/Water Separator

4. TANK CAPACITY: BARRELS 3840 GALLONS

5. TANK DIMENSIONS: DIAMETER 9'6" HEIGHT 8'0" LENGTH 8'0" WIDTH

6. TANK SHAPE: CYLINDRICAL ☐ SPHERICAL ☐ OTHER SHAPE ☒ DESCRIBE RECTANGULAR

7. TANK MATERIALS OF CONSTRUCTION: STEEL ☒ WOOD ☐ OTHER ☐ SPECIFY

8. TANK PAINT: CHALKING WHITE ☐ LIGHT GREY ☒ ALUMINUM ☐ DARK COLOR OR NO PAINT ☐

9. TANK CONDITION: GOOD ☒ FAIR ☐ POOR ☐

10. TANK STATUS: NEW CONSTRUCTION ☒ ALTERATION ☐

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF ☒ PRESSURE ☐ INTERNALLY HEATED ☐ UNDERGROUND ☐ FLOATING ROOF ☐ OPEN TOP ☐ INSULATED ☐ OTHER ☐

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
TYPE OF ROOF: DOUBLE DECK ☐ PONTOON ☐ OTHER ☐ DESCRIBE
TYPE OF SEAL: SINGLE ☐ DOUBLE ☐ OTHER ☐ DESCRIBE
TYPE OF SHELL CONSTRUCTION: RIVETED ☐ WELDED ☐ OTHER ☐ DESCRIBE

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

	NUMBER	PRESSURE SETTING	VACUUM SETTING	DISCHARGING TO: (CHECK) ATMOSPHERE	VAPOR CONTROL	FLARE
COMBINATION						
PRESSURE						
VACUUM						
OPEN	1			X		

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK: Hydrocarbons DENSITY: ____ LBS/GAL. (OR) ____ °A.P.I.

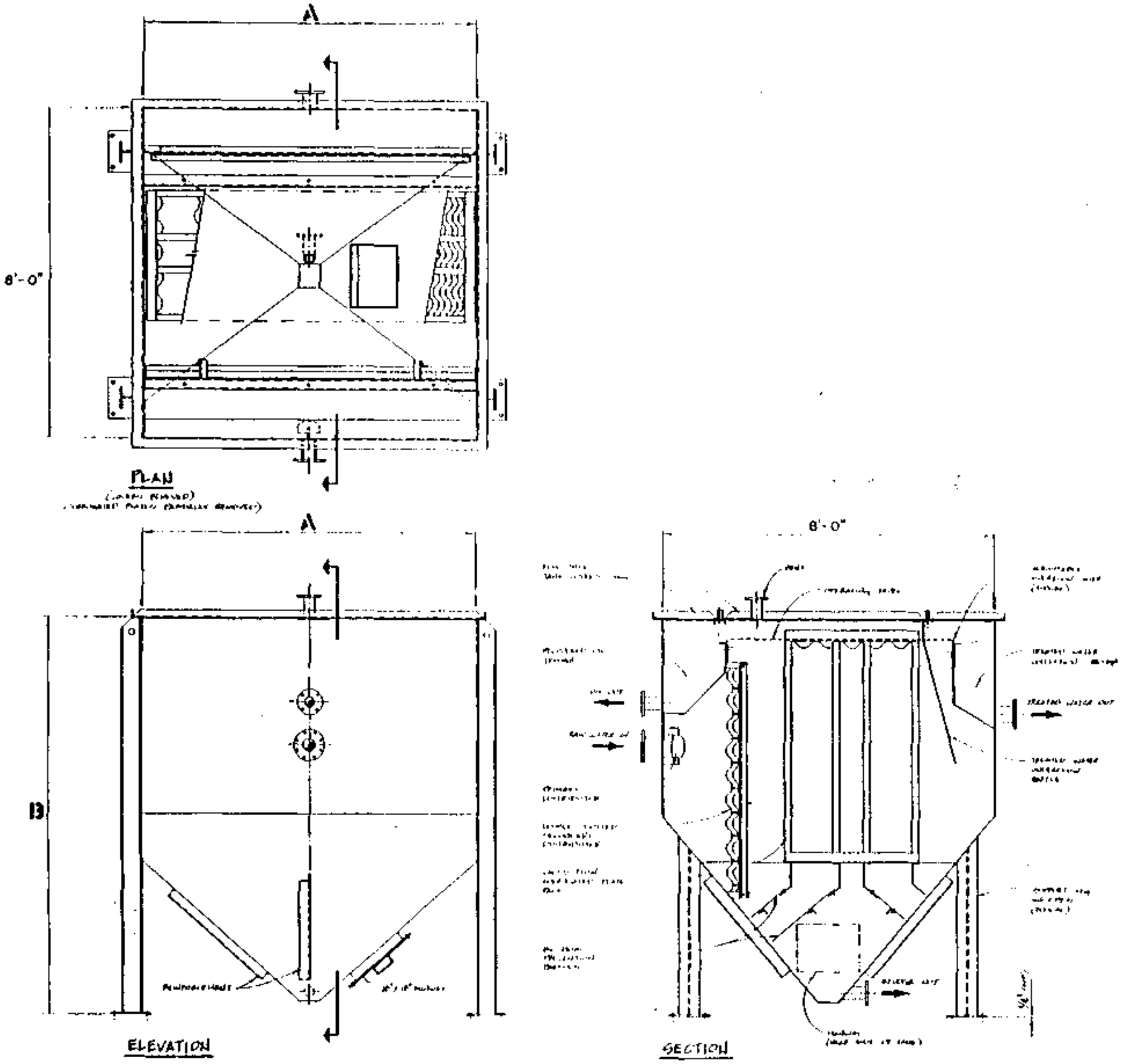
16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK:
MINIMUM TEMPERATURE ____ °F MAXIMUM TEMPERATURE ____ °F Ambient

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
VAPOR PRESSURE: ____ LBS. REID (OR) ____ LBS. PER SQ. IN. ABSOLUTE AT ____ °F
INITIAL BOILING POINT: ____ °F
FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: ____ °F

18. OPERATIONAL DATA:
MAXIMUM FILLING RATE: ____ BARRELS PER HOUR (OR) 800 GALLONS PER HOUR
AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) 1.0 FT
AVERAGE THROUGHPUT: ____ BARRELS PER DAY (OR) ____ GALLONS PER DAY
TANK TURNOVERS PER YEAR: Tank operates at constant level

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
NAME OF SOLVENT: ____ NAME OF MATERIAL DISSOLVED: ____
CONCENTRATION OF MATERIAL DISSOLVED: ____ % BY WEIGHT (OR) ____ % BY VOLUME (OR ____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
IDENTIFY THE MATERIAL: ____
PRESSURE AT WHICH MATERIAL IS STORED: ____ LBS. PER SQ. IN. GAGE AT ____ °F



MODEL NUMBER	DIMENSIONS	
	A	B
CFS - 550 AG	4'-0"	9'-6"
CFS - 1000 AG	6'-2"	9'-6"
CFS - 1350 AG	8'-0"	9'-6"
CFS - 1700 AG	10'-0"	10'-6"
CFS - 2120 AG	10'-0"	11'-9"

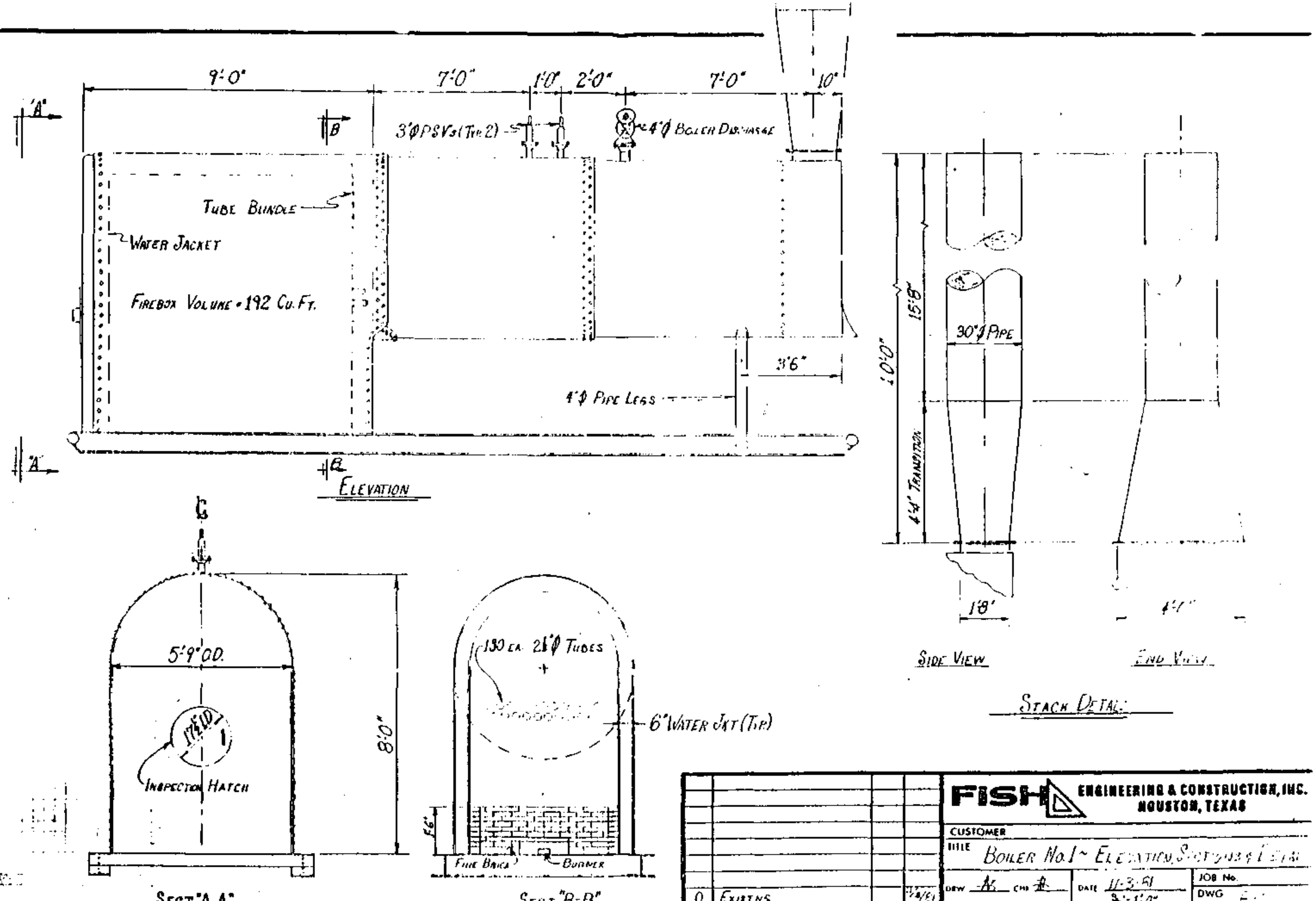
GENERAL NOTES

CERTIFIED

THE PIELKENROAD SEPARATOR COMPANY

CROSS-FLOW CORRUGATED PLATE OIL / SEDIMENT / WATER GRAVITY SEPARATOR

000922



000923

FISH ENGINEERING & CONSTRUCTION, INC.
HOUSTON, TEXAS

CUSTOMER

TITLE Boiler No. 1 ~ Elevation, Sections & Detail

No.	REVISIONS	APP	DATE
0	Existing		11/3/61

DRW AS CHK ℬ DATE 11-3-61 SCALE ⅜"=1'-0" JOB No. DWG No. B-1

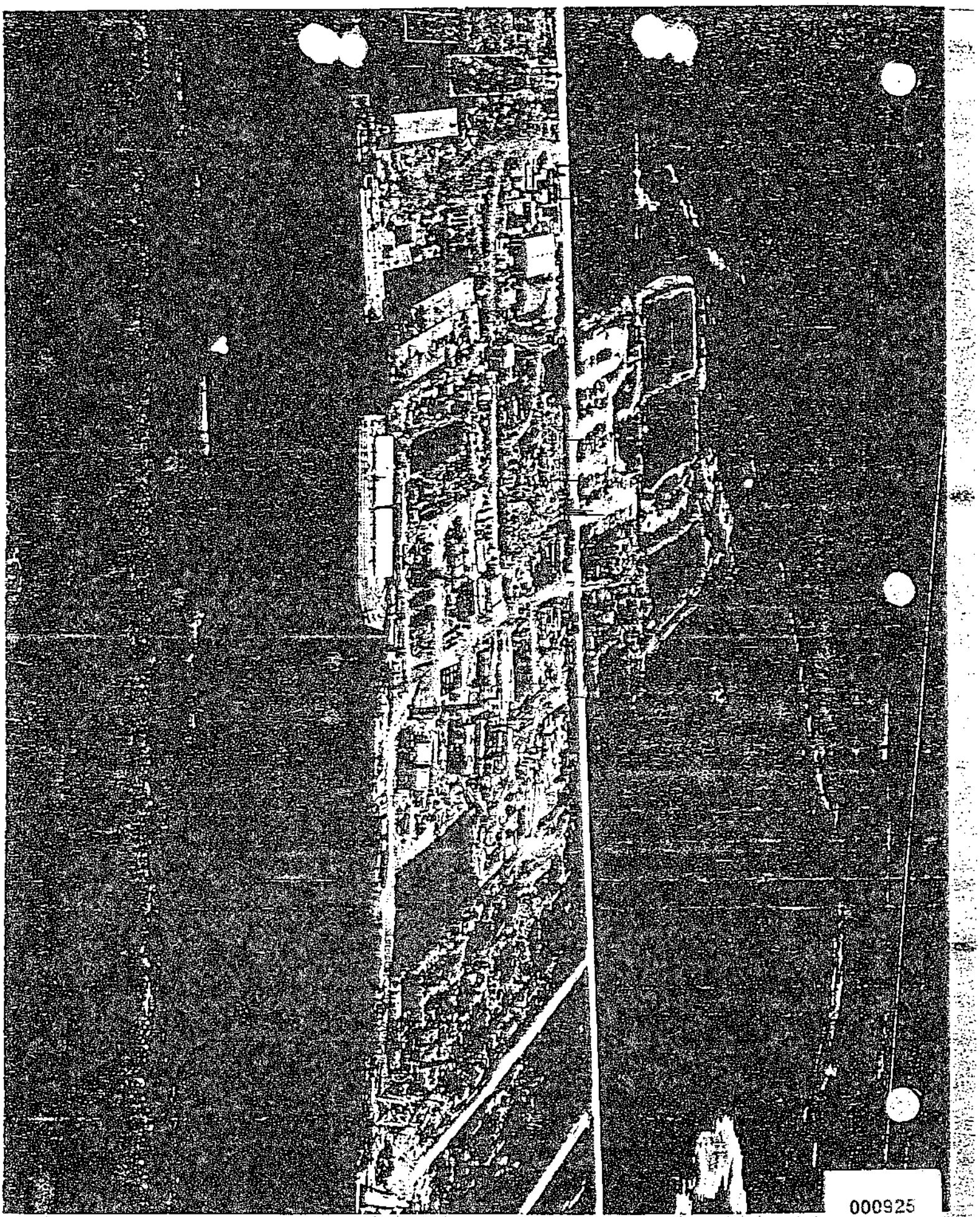
EXHIBIT II

INDEX

1. Topographical map (scale: 1:24,000 or approximately 2½ inches per mile) showing the isolated location of the Fish Freeport Marine Facility.

2. Photocopy of a photograph of the Marine Facility, depicting the Intracoastal Waterway in the foreground and Oyster Creek in the far distance.

3. Fish Freeport Marine Facility Plot Plan Sketch.


000925

RECEIVED

JAN 11 1982

REGION 7
TEXAS AIR CONTROL BOARD

CONFERENCE SUMMARY

Date: 1/6/82 Time: 1:30 Location: 2E0

Person Conducting Meeting: FISHENGER RICHARD WHITEHEAD

Subject: BARGE REPAIR FACILITY - FREEPORT
- PREPERMIT

Summary: SECOND PREPERMIT MTG ON FACILITY TO BE ADDED TO FISH CONSTRUCTION SITE NEAR FREEPORT. SHORESIDE EMISSIONS WILL BE LESS THAN 25 TPY AND MAY BE EXEMPTABLE. BARGE CLEANING EMISSIONS OF NON-TOXIC, NON-ODOROUS MATLS MAY BE SUBJECT TO MARINE POLICY. TWO-THIRDS OF EXPECTED RARGES WILL BE FOR NON-TOX/NON-ODOR MATLS. OTHER THIRD MAY BE SUBJECT TO REGULATION II BACT REVIEW.

Required Action: NONE - APPLICATION FORTHCOMING

000926

Copies To: AEO/LAR/JCM (REGION 7)

TACB-82

S/W

CONFERENCE SUMMARY

Date: 10/21/81 Time: 10:00 Location: Rm 202

Person Conducting Meeting: Sam Crowther

Subject: Fish Engineering Proposed Barge Cleaning Facility
Freeport, Brazoria County

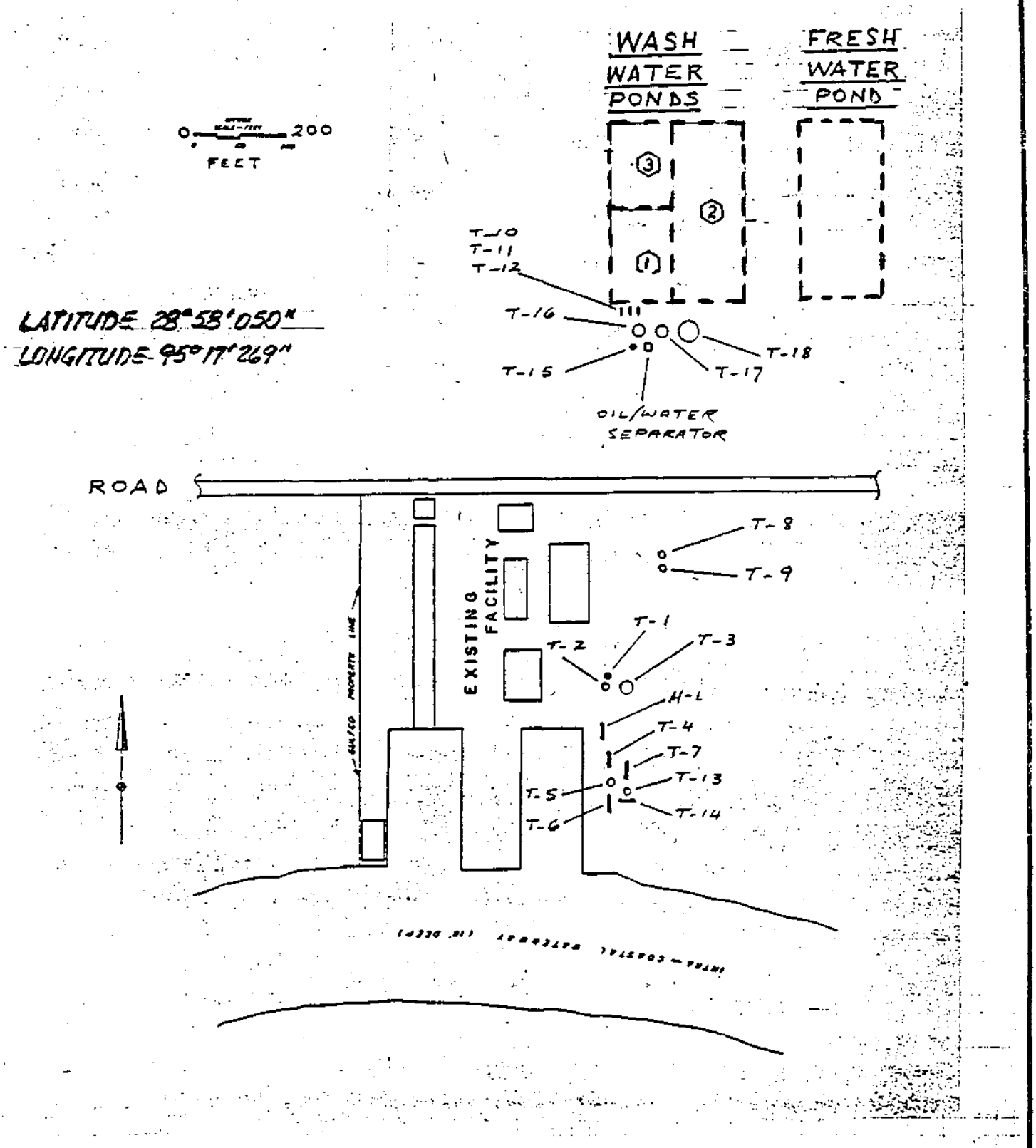
Summary: Fish Engr. discussed with us the requirements of
RRC VI for the proposed expansion of their barge cleaning
facility near Freeport. Most of the construction pertains to
wastewater treatment facilities. We supplied information
and documents as needed for them to complete an application
for permit or exemption.

Required Action: Fish to submit application.

000927

Copies To: LRR, JCM, ~~Region 7~~

TACB-82



No.	REVISIONS	APP.	DATE

FISH ENGINEERING & CONSTRUCTION, INC.
HOUSTON, TEXAS

FISH FREEPORT MARINE FACILITY
SKETCH PLOT PLAN

000928

DRW _____ CHK _____ DATE _____ JOB No. 2000
APP _____ SCALE _____ DWG. No.

RECE[illegible]D

MAY 21 1982

REGI[illegible]

TEXAS AIR CONTROL BOARD

REQUEST FOR COMMENTS

PERMITS SECTION

DATE 5/18/82

FROM Amba Mann

TO ☒ REGION 7 ☐ [illegible] ☐ [illegible]

☐ AREA ☒ [illegible] ☒ [illegible]

☐ CONFIDENTIAL INFORMATION [illegible]

PERMIT APPLICATION NO. C-______

PERMIT EXEMPTION NO. X-3561

Applicant [illegible]

☒ [illegible] ☐ City ☐ [illegible]

1. COMPANY Fish Engineering & Construction, Inc.
2. FACILITY LOCATION Freeport, Brazoria County
3. LATITUDE 28° 58' 05" LONGITUDE 095° 12' 469 [illegible] ADD
4. PERMIT UNIT NAME Barge Cleaning Facility UNIT I.D. ______
5. [illegible] RELATED PERMITS EXEMPTIONS ______
6. ☐ NEW SOURCE ☒ MODIFICATION ☐ NSPS ☐ NESHAPS ☐ PORTABLE ☐ PSD
   ☐ PERMIT AMENDMENT ☐ [illegible] OR CHANGE
   DATE ______ ______ for ☐ [illegible] CONSTRUCTION ☐ CONSTRUCTION STARTED
   ☐ FACILITY BUILT AND OPERATING ☐ AS SOON AS PERMIT IS ISSUED.
7. NAME AND RATE OF AIR CONTAMINANTS OPER SCHED: ___ H/D: ___ D/W: ___ W/Y: ✓ CONTINUOUS - See Barge Schedule except for Heater

Air Contaminant	Permit Max. Allow. Rate	[illegible]	Actual Rate	Previous Rate	Comment
VOC	17.4 T/yr	AXCF ← application Data + Emission Factor AD + EF			
* SO_2	12.1 T/YR	"			
* NOX	1.88 T/YR	"			

[illegible]

☐ [illegible] ☒ SATISFACTORY ☐ [illegible]

☐ [illegible] Fact. on Heater (Diesel) of 0.16 # NOX / 10^6 BTU Heat Input.

9. [illegible] RECOMMENDATION: ☐ ISSUE ☒ EXEMPTION ☐ DENY

Emissions are Insignificant

10. PROPOSED SPECIAL PROVISIONS (Other than General Provisions and Maximum Allowables).

* Water heater will be limited to firing no more than 147 hrs w/records of operation to verify (Annual Firing Period) Records on barges cleaned and materials emitted.

REQUESTED COMMENTS: (Please return your comments promptly.) ☐ RUSH

SITE OR LOCATION:
☐ SATISFACTORY
☐ QUESTIONABLE
☐ UNSATISFACTORY

☐ [illegible] DATED ______

☐ NO OBJECTIONS.

☐ COMMENTS ______

000929

SG PH JF F

FISH

FISH
ENGINEERING &
CONSTRUCTION, INC.
THREE POST OAK CENTRAL 1990 SOUTH POST OAK ROAD

April 14, 1982

TEXAS AIR CONTROL BOARD
6330 Highway 290 East
Austin, Texas 78723

Attention: Mr. Bill Stewart, P.E.
Executive Director

Reference: FE&CI Project 2000
Exemption from Construction Permit and Operating Permit
Freeport, Texas (Brazoria County)

Dear Sir:

In accordance with the Permit Exemption Procedures of the Texas Air Control Board, Fish Engineering & Construction, Inc. hereby applies for an exemption from the Construction Permit and the Operating Permit for its proposed new tanks and oil/water separator at its Freeport Marine Facility. In considering our request for an exemption we ask that you bear in mind the following facts and information.

1. The annual emissions from the overall plant site are estimated to be 17.4 tons per year, i.e. less than the 25 tons per year set as the upper limit for exemptions from Construction and Operating Permits.(See Exhibit I)

2. The installation of the new tankage and oil/water separator enables the existing waste disposal ponds to be removed from service and so reduces total annual emissions from their present level.

3. The isolated location of the plant site reduces any effect on population that any emissions from the plant might have.(See Exhibit II)

000930

Direct Correspondence To:
P.O. Box 22535 • Houston, Texas 77027 • (713)621-8300 • TWX 910 881 1741

ON OTHER SIDE →

PRODUCT	CODE #	DATE ISSUED OR REVISED
STYRENE MONOMER	813	AUG 27 1982

SYNONYM:	TYPE COMMODITY
VINYLBENZENE	PLASTIC MONOMER

CHARACTERISTICS

DOT SHIPPING NAME		DOT HAZARD CLASS	
RQ/STYRENE MONOMER, INHIBITED		FLAMMABLE LIQUID	
FLASH POINT	**FLAMMABLE LIMITS**	**BOILING POINT**	**VAPOR DENSITY (AIR = 1)**
88°F (TCC)	1.1 - 1.6%	293°F	3.6
FREEZING POINT	**LOADING TEMP.**	**MAX. PRODUCT TEMP.**	**MAX. STEAM PRESSURE**
-23.5°F	AMBIENT TO 90°F	90°F	DO NOT HEAT
WT/GAL @ 77°F (25°C)	**CONCENTRATION SHIPPED**	**SOLUBILITY IN WATER**	**PHYSICAL STATE**
7.59	FULL STRENGTH	DOES NOT MIX	LIQUID

APPROVED EQUIPMENT:

	TANK TRUCK	TANK CAR
TANK TYPE:	MC 303(1), 304(2), 306(1), 307(2)	DOT 103W, 111A60W1, 111A100W1
TANK MATERIALS:	STAINLESS STEEL, ALUMINUM	LINED CARBON STEEL
INSULATION:	REQUIRED - SEE NOTE UNDER HANDLING (OTHER)	REQUIRED - SEE NOTE UNDER HANDLING (OTHER)
STEAMCOILS:	NOT REQUIRED	NOT REQUIRED
METHOD USED TO CLEAN TANK:	DRAIN, FLUSH WITH WATER, WASH WITH DETERGENT, RINSE WITH WATER, & DRY.	
PUMP TYPES:	STAINLESS STEEL OR CARBON STEEL WITH MECHANICAL SEALS. CENTRIFUGAL OR POSITIVE DISPLACEMENT.	
HOSE TYPES:	STAINLESS STEEL, TEFLON, CROSS LINKED P/E (3), VITON (3), ALUMINUM .	
GASKETS:	ASBESTOS, TEFLON, VITON (LEATHER-SINGLE USE ONLY).	
OTHER:	PREVENT CONTACT WITH COPPER & COPPER ALLOYS. (1) MUST BE EQUIPPED WITH PRESSURE HATCH - 25 PSIG MIN. (2) PREFERRED EQUIPMENT (3) APPROVED FOR INTERMITTENT SERVICE ONLY. HOSE SHOULD BE THOROUGHLY DRAINED IMMEDIATELY AFTER USE.	

HANDLING:

HOW UNLOADED:	PUMP OR INERT GAS PRESSURE (PRESSURE NOT APPROVED FOR MC 303 & 306 TANKS)
PROBLEMS:	FLAMMABLE. PREVENT IGNITION. GROUND & BOND EQUIPMENT NO SMOKING OR OPEN FLAMES. DO NOT GET IN EYES. AVOID CONTACT WITH SKIN. AVOID BREATHING VAPORS.
PRECAUTIONS:	USE PROTECTIVE EQUIPMENT--MINIMUM OF CHEMICAL WORKERS GOGGLES, HARD HAT, RUBBER GLOVES & RUBBER BOOTS. HAVE RESPIRATOR AVAILABLE.
OTHER:	NOTE: INSULATION ADVISABLE TO PREVENT OVER-HEATING PRODUCT ON LONG HAULS IN HOT WEATHER. MAINTAIN PRODUCT BELOW 90°F.

000931

COUNT: PL0118V ENGINEERS: MANN, AMPA E.
SUED TO: HERCULES OFFSHORE DRILLING COMPANY
IT NAME: BARGE CLEANING FACILITY
TY: FREEPORT COUNTY: BRAZORIA REGION: 07 PERMIT: 13561

****

* EMISSION POINT INFORMATION: H-1

MZONE: 15 NAME: HEATER
STMETERS: 276768 HEIGHT: 10 TEMP: 600
RTHMETERS: 3206433 TYPE: STACK
MARK:
AMETER: 2.50 VELOCITY: 21.40 MOISTURE: HOR DIS: NO

****

* FACILITY INFORMATION

CILITY	SCC	SCHED HD	D	WY	NSPS	NESHAP	START CONST	START OPER
001	10500105	1.0	3	49	NO	NO	6-08-82	7-08-82

****

* ABATEMENT EQUIPMENT INFORMATION

N	NO UNITS	CODE	DESCRIPTION

****

* CONTAMINANT INFORMATION

CILITY: 01001 CONTAMINANT NAME: PART-U CODE: 10000
CHANGE DATE: 06-08-82 REASON FOR CHANGE: N
ALLOW: 2.3129 L/H CHG INCR: 2.3129 L/H
0.1700 T/Y .1700 T/Y ACTUAL: 0.1700 T/Y

CILITY: 01001 CONTAMINANT NAME: NONMETHANE VOC-U CODE: 50001
CHANGE DATE: 06-08-82 REASON FOR CHANGE: N
ALLOW: 1.2244 L/H CHG INCR: 1.2244 L/H
0.0900 T/Y .0900 T/Y ACTUAL: 0.0900 T/Y

CILITY: 01001 CONTAMINANT NAME: NITROGEN OXIDES CODE: 70400
CHANGE DATE: 06-08-82 REASON FOR CHANGE: N
ALLOW: 25.5782 L/H CHG INCR: 25.5782 L/H
1.8800 T/Y 1.8800 T/Y ACTUAL: 1.8800 T/Y

CILITY: 01001 CONTAMINANT NAME: SULFUR OXIDE-U CODE: 70500
CHANGE DATE: 06-08-82 REASON FOR CHANGE: N
ALLOW: 167.4829 L/H CHG INCR: 167.4829 L/H
12.3100 T/Y 12.3100 T/Y ACTUAL: 12.3100 T/Y

CILITY: 01001 CONTAMINANT NAME: CARBON MONOXIDE CODE: 90300
CHANGE DATE: 06-08-82 REASON FOR CHANGE: N
ALLOW: 11.7006 L/H CHG INCR: 11.7006 L/H
0.8600 T/Y .8600 T/Y ACTUAL: 0.8600 T/Y

COUNT: PL0118V ENGINEERS: MANN, AMBA E.
SSUED TO: HERCULES OFFSHORE DRILLING COMPANY
IT NAME: BARGE CLEANING FACILITY
ITY: FREEPORT COUNTY: BRAZORIA REGION: 07 PERMIT: 13561

****

* EMISSION POINT INFORMATION: AREA-1

MZONE: 15 NAME: BARGE CLEANING FACILITY
STMETERS: 276768 HEIGHT: 30 TEMP:
RTHMETERS: 3206433 TYPE: FUGITIVE
MARK:
NGTH: 1700 WIDTH: 1200 DEGREES E OFNORTH

****

** FACILITY INFORMATION

CILITY	SCC	SCHED HR	D	WY	NSPS	NESHAP	START CONST	START OPER
002	40600259	24.0	7	52	NO	NO	6-08-82	7-08-82

****

* ABATEMENT EQUIPMENT INFORMATION

N	NO UNITS	CODE	DESCRIPTION

****

* CONTAMINANT INFORMATION

CILITY: 01002 CONTAMINANT NAME: NONMETHANE VOC-U CODE: 50001
CHANGE DATE: 06-08-82 REASON FOR CHANGE: N

ALLOW:	0.4771 L/H	CHG INCR:	.4771 L/H		
	2.0900 T/Y		2.0900 T/Y	ACTUAL:	2.0900 T/Y

JUN 8 1982

Mr. G. J. Gill
Senior Vice President
FISH ENGINEERING AND CONSTRUCTION,
INCORPORATED
Post Office Box 22535
Houston, Texas 77027

Re: Permit Exemption X-3561
Barge Cleaning Facility
Freeport, Brazoria County

Dear Mr. Gill:

This is in response to your letter dated April 14, 1982, concerning the proposed construction of a barge cleaning facility. We understand that total emissions of volatile organic compounds will not exceed 17.4 tons per year.

Pursuant to Section 3.27(a) of the Texas Clean Air Act, I have determined to exempt your proposed facility from the permit procedures of this Agency because it will not make a significant contribution of air contaminants to the atmosphere if constructed and operated as described in your letter. You are reminded that regardless of whether a construction permit is required, this facility must be in compliance with all Rules and Regulations of the Texas Air Control Board at all times.

The issuance of this exemption is contingent upon the following conditions:

1. Nitrogen oxide emissions from Heater H-1 shall not exceed 0.16 lbs. $NO_x/10^6$ Btu heat input.

2. The firing duration of Heater H-1 shall not exceed 147 hours per year.

3. A record shall be maintained to include the firing duration of Heater H-1, the number and capacity of barges cleaned and the type of material each barge contained. This record shall be made available to representatives of the Board upon request.

Thank you for providing the information necessary for our evaluation of your proposal. If you have further questions concerning this exemption, please contact Mr. Amba Mann of our Permits Division.

Sincerely,

ORIGINAL SIGNED BY
ELI BELL

Bill Stewart, P.E.
Executive Director

cc: Mr. Sabino Gomez, M.P.H., Regional Supervisor, Bellaire
Dr. G. B. Brown, Jr., Acting Director, Brazoria County Health Department, Angleton

bcc: MANN/caw, board, file, Compliance (FISH ENG X3561 #5)

FEB 14 19[illegible]

Mr. William Coward
President
HERCULES OFFSHORE DRILLING COMPANY
11381 Meadowglen Lane
Houston, Texas 77082

Re: Change of Ownership
Permit No. X-13561
Barge Cleaning
Freeport, Brazoria County
Account ID No. BL-0114-V

Dear Mr. Coward:

We appreciate being informed that Hercules Offshore Drilling Company is the new owner of the referenced facility which was previously owned by Fish Engineering and Construction, Incorporated. Our files have been updated to indicate that the change of ownership has occurred.

We understand that there will be no change in the type of pollutants emitted and no increase in the quantity of emissions. You are reminded that the facility must be in compliance with all Rules and Regulations of the Texas Air Control Board and the requirements of this permit exemption at all times.

Thank you for this information and for your commitment to comply. Your cooperation and interest in air pollution control are appreciated.

Sincerely,
ORIGINAL SIGNED BY
L.E. PEWITT

Lawrence E. Pewitt, P.E.
Director, Permits Division

cc: Mr. Herbert W. Williams, Jr., Regional Director, Houston
Lee D. O'Connor, M.D., Director, Brazoria County Health Department, Angleton
Mr. Tom Randolph, Fish Engineering and Construction, Incorporated, Houston

bcc: CLB/sm, board, file (hercules.sm)

000936

CLB
2/9

CLB
13561
XOLJN

HERCULES
OFFSHORE DRILLING COMPANY

Strength through experience, equipment, know-how

11381 Meadowglen Lane ◻ Houston, Texas 77082 (713) 497-7934

January 25, 1989

Texas Air Control Board
6330 Hwy 290 East
Austin, Texas 78723

Attention: Bill Stewart, P.E.
Executive Director

Subject: Permit Exemption X-3561
Barge Cleaning Facility
Freeport, Brazoria County

Dear Mr. Stewart:

As of January 20, 1989, Hercules Offshore Drilling Company acquired Fish Engineering & Construction, Inc. Marine Yard in Freeport, Texas.

We hereby request transfer of this registration to Hercules Offshore Drilling Company and agree to the existing terms and conditions of this registration.

Respectfully,

William Coward
President

WC/se

cc: Mr. Hunt
5555 West Loop, Suite 300
Bellaire, Texas 77401

P.O. BOX 22535 / POST OAK TOWER / HOUSTON, TEXAS 77027 / (713) 621-8300 / TWX 910 881 1741

FISH ENGINEERING & CONSTRUCTION, INC.

RECEIVED

JAN 27 1989

January 25, 1989

Texas Air Control Board
6330 Hwy 290 East
Austin, Texas 78723

Attention: Bill Stewart, P.E.
Executive Director

Subject: Permit Exemption X-3561
Barge Cleaning Facility
Freeport, Brazoria County

Dear Sir:

Please be advised that effective January 20, 1989, Fish Engineering & Construction, Inc. sold the Fish Marine Yard to Hercules Offshore Drilling Company, 11381 Meadowglen Lane, Houston, Texas 77082. The mailing address, telephone number and type of business will remain the same.

We hereby request transfer of this registration to Hercules Offshore Drilling Company. Please adjust your records accordingly, and if additional information is desired, please contact the undersigned at the address indicated above.

Sincerely,

Tom Randolph

Tom Randolph
Marine Manager

TR/se

cc: Mr. Hunt
5555 West Loop, Suite 300
Bellaire, Texas 77401

000938

PERMIT APPLICATION SUMMARY TEXAS AIR CONTROL BOARD DATE 10/06/82

*PERMIT: X3561 ENGR:MA. A E / GROUP:CHEM ID:BL-0113-V
ISSUED TO:FISH ENGINEERING & CONSTRUCTION, INC.

PERSON:G. J. GILL TITLE:SENIOR VICE PRESIDENT
ADDR 1:PO BOX 22535 ADDR 2:
TY:HOUSTON STATE:TX MAIL ZIP:77027 TELEPHONE:(713) 621-9300
COMPANY BUSINESS:BARGE CLEANING FACILITY
LOCATION: NEAREST CITY:FREEPORT
COUNTY:BRAZORIA REGION:07 LAT:28-58-05 LONG:095-17-26 SITE ZIP:

*PERMIT UNIT NAME:BARGE CLEANING FACILITY
UNIT ID NUMBER: PERMANENT:X PORTABLE:
GENERAL OPERATING SCHEDULE: HR/DAY:24 DAY/WK:7 WK/YR:52
CLASSIFICATION: NEW FACILITY:X NEW PERMIT: MODIFIED: CHG LOC: CHG OWN:

*PERMIT EXEMPTION RECD:04-19-82 SUPP INFO REQ: - - RECD: - -
REGION SENT: - - RECD: - - NSPS: NESHAPS:
DISPOSITION OF EXEMPT:(I,D) (I) 06-08-82 CONST START DATE:(E,A)( ) - -
PRO TYPE:BARGE CLEANING
PRO SIZE:
SIC:4463
SCC:10-50-01-05, 40-60-02-59, - - - , - - - , - - - , - - -

*VOID PERMIT RECORD: - - ( ) HOLD PERMIT PENDING UNTIL: - - ( )
-VOID/HOLD CODES: CR-COMPANY REQUEST TI-TIME EXPIRED DD-DATA DELAY
TO-TECHNICAL DIFFICULTIES RE-REISSUED NR-NO RESPONSE

MARKS:

*SPECIAL DATE: - - MESSAGE:
SPECIAL DATE: - - MESSAGE:

*AIR CONTAMINANT DATA: SUM OF RATES FOR ALL POINTS IN THIS PERMIT MAJOR SOURCE :( )

NAME	CODE	MAX ALL RATE		ACTUAL RATE		PREV RATE	
PART-U	10000	0.17	T/Y		T/Y		T/Y
VOC-U	50001	2.18	T/Y		T/Y		T/Y
NITROGEN OXIDES	70400	1.88	T/Y		T/Y		T/Y
SULFUR OXIDE-U	70500	12.31	T/Y		T/Y		T/Y
CARBON MONOXIDE	90300	0.86	T/Y		T/Y		T/Y
			T/Y		T/Y		T/Y
			T/Y		T/Y		T/Y
			T/Y		T/Y		T/Y
			T/Y		T/Y		T/Y
			T/Y		T/Y		T/Y
			T/Y		T/Y		T/Y

*ABATEMENT EQUIPMENT: SUM OF EQUIPMENT FOR ALL POINTS IN THIS PERMIT
QUAN CODE ABATEMENT DESCRIPTION
* NO ABATEMENT INFORMATION ***

000939

ACCOUNT: BL-0118-V ENGINEERS: MANN, A E /
ISSUED TO: FISH ENGINEERING & CONSTRUCTION, INC.
PERMIT UNIT NAME: BARGE CLEANING FACILITY
^ITY: FREEPORT COUNTY:BRAZORIA REGION: 07

* PERMIT: X3561 POINT: 1 EMIS NO:H-1 EMIS NAME: HEATER

UTM ZONE: 15 E: 276768 METERS N: 3206433 METERS NSPS: NESHAPS:

ATTAINMENT STATUS TSP: NOX: SO2: CO: O3:

PSD STATUS: IC START CONSTRUCTION: 06-08-82 START OPERATION: 07-08-82

ACTION REQUIRED: N ACTION COMPLETED: - - COMPLETED BY:

REMARK:FIRING OF HEATER H-1 LIMITED TO 147 HOURS PER YEAR BY EXEMPTION.

PHYSICAL HT: 10 ELEVATION: (MSL) NO. IDENT UNITS: 1

* TYPE OF EMISSION POINT: (ALL ENGLISH UNITS -- FEET, DEG F, BTU, ETC.)

STACK: DIAMETER: 2.50 VELOCITY: 21.40 TEMPERATURE: 600

% MOIST: HORIZ DISCH: GEP HT: 10

* PROCESS INFORMATION AND CONTAMINANT DATA

PROCESS SCC	SCHED CODE	HD	D	WY	CONTAM CODE	CONTAMINANT NAME	PERMIT MAX ALLOW RATE	ACTUAL RATE	PREVIOUS RATE	UF
30500105	01	3	49		10000	PART-U	0.17(3)	( )	( )	
					50001	VOC-U	0.09(3)	( )	( )	
					70400	NITROGEN OXIDES	1.88(3)	( )	( )	
					70500	SULFUR OXIDE-U	12.31(3)	( )	( )	
					90300	CARBON MONOXIDE	0.86(3)	( )	( )	

*ABATEMENT EQUIPMENT INFORMATION

PROCESS NO	QUAN	CODE	ABATEMENT DESCRIPTION	COST	%EFF	%REL

CONTINUED

ACCOUNT: BL-0118-V ENGINEERS: MANN, A E /
ISSUED TO: FISH ENGINEERING & CONSTRUCTION, INC.
PERMIT UNIT NAME: BARGE CLEANING FACILITY
CITY: FREEPORT COUNTY:BRAZORIA REGION: 07

* PERMIT: X3561 POINT: 2 EMIS NO:AREA-1 EMIS NAME: BARGE CLEANING FACILITY

UTM ZONE: 15 E: 276768 METERS N: 3206433 METERS NSPS: NESHAPS:

ATTAINMENT STATUS TSP: NOX: SO2: CO: O3:

PSD STATUS: IC START CONSTRUCTION: 06-08-82 START OPERATION: 07-08-82

ACTION REQUIRED: N ACTION COMPLETED: - - COMPLETED BY:

REMARK:HEIGHT ESTIMATED, START DATES ESTIMATED.

PHYSICAL HT: 30 ELEVATION: (MSL) NO. IDENT UNITS: 1

* TYPE OF EMISSION POINT: (ALL ENGLISH UNITS -- FEET, DEG F, BTU, ETC.)

AREA SOURCES: LENGTH: 1700 WIDTH: 1200 LONG AXIS: 00 DEGREES E OF NORTH

* PROCESS INFORMATION AND CONTAMINANT DATA

PROCESS SCC CODE	SCHED HD	D	WY	CONTAM CODE	CONTAMINANT NAME	PERMIT MAX ALLOW RATE	ACTUAL RATE	PREVIOUS RATE	UF
40600259	24	7	52	50001	VOC-U	2.09(3)	( )	( )	
						( )	( )	( )	

*ABATEMENT EQUIPMENT INFORMATION

PROCESS NO	QUAN	CODE	ABATEMENT DESCRIPTION	COST	%EFF	%REL

END

EMISSION POINT DATA

ENGINEER: mc

ACCOUNT #: ?

*** PERMIT NO: X3561 CDS NO: EMISSION POINT NO: H-1 EMISSION POINT NAME: HEATER

UTM ZONE/LL LL E/LAT 28805 METERS N/LONG 0951727 METERS NSPS: NESHAPS:

ACTION CODES:
N = NO ACTION REQ.
S = STACK SAMPLING REQ.
A = AMBIENT SAMPLING REQ.
P = PROPERTY LINE SAMPLING
C = BOTH STACK AND PROPERTY LINE
O = OTHER

ATTAINMENT STATUS: (A, N, or U) TSP NO$_x$ SO$_2$ CO O$_3$ PSD STATUS BL or IC

START CONSTRUCTION: 06-08-82 START OPERATION: 07-08-82 ACTION REQUIRED: N

ACTION COMPLETED: -- - -- COMPLETED BY: (A, T, or C) REMARKS: FIRING OF HEATER H-1 LIMITED TO 1478 HOURS PER YEAR BY CONDITION.

PHYSICAL HEIGHT: 10. FT. ELEVATION: (MSL) FT. HOW MANY (SPECIAL CODE) 91,92,93 only See JEP 6/16/82 memo

*** TYPE OF EMISSION POINT: (ALL ENGLISH UNITS -- FEET, DEG F, BTU, ETC.)

STACK: DIAMETER: 2.50 VELOCITY: 21.40 TEMPERATURE: 600. F % MOIST: HORIZ DISCH: GEP HT:

FLARE: LHV: BTU/SCF MSCFM: MOL WT:

AREA SOURCES: LENGTH: WIDTH: LONG AXIS: DEGREES (E or W) OF NORTH

***ABATEMENT EQUIPMENT: PROCESS NO: QUANTITY: CODE: COST (M$) %EFF %REL

PROCESS NO: QUANTITY: CODE: COST (M$) %EFF %REL

PROCESS NO: QUANTITY: CODE: COST (M$) %EFF %REL

*** PROCESS INFORMATION AND POLLUTANT DATA (SUM OF EMISSIONS FROM DESIGNATED EMISSION POINT)

PROCESS NO	SCC CODE	SCHEDULE HD	SCHEDULE D	SCHEDULE WY	POLL CODE	PERMIT MAX ALLOW RATE	U	M	ACTUAL RATE	U	M	PREVIOUS RATE	U	UF
01	10580105	01	3	49	10000	0.17	3							
					50001	0.09	3							
					70400	1.88	3							
					70500	12.31	3							
					90300	0.86	3							

000942

EMISSION POINT DATA

ENGINEER: MM

ACCOUNT #: 7

*** PERMIT NO: X3561 CDS NO: EMISSION POINT NO: AREA-1 EMISSION POINT NAME: BARGE CLEANING FACILITY

UTM ZONE/LL LL E/LAT 285805 METERS N/LONG 0951727 METERS NSPS: NESHAPS:

ACTION CODES:
N = NO ACTION REQ.
S = STACK SAMPLING REQ.
A = AMBIENT SAMPLING REQ.
P = PROPERTY LINE SAMPLING
C = BOTH STACK AND PROPERTY LINE
O = OTHER

ATTAINMENT STATUS: (A, N, or U) TSP NO$_x$ SO$_2$ CO O$_3$ PSD STATUS BL or IC

START CONSTRUCTION: 06-08-82 START OPERATION: 07-08-82 ACTION REQUIRED: N

ACTION COMPLETED: -- COMPLETED BY: (A, T, or C) REMARKS: HEIGHT ESTIMATED, START DATES ESTIMATED.

PHYSICAL HEIGHT: 20. FT. ELEVATION: . (MSL) FT.

*** TYPE OF EMISSION POINT: (ALL ENGLISH UNITS – FEET, DEG F, BTU, ETC.)

STACK: DIAMETER: . VELOCITY: . TEMPERATURE: . F % MOIST: . HORIZ DISCH: GEP HT: .

FLARE: LHV: . BTU/SCF MSCFM: . MOL WT: .

AREA SOURCES: LENGTH: 1700. WIDTH: 1200. LONG AXIS: 00. DEGREES (E or W) E OF NORTH

***ABATEMENT EQUIPMENT: PROCESS NO: QUANTITY: CODE: COST (M$) %EFF %REL

PROCESS NO: QUANTITY: CODE: COST (M$) %EFF %REL

PROCESS NO: QUANTITY: CODE: COST (M$) %EFF %REL

*** PROCESS INFORMATION AND POLLUTANT DATA (SUM OF EMISSIONS FROM DESIGNATED EMISSION POINT)

PROCESS NO	SCC CODE	SCHEDULE HD	SCHEDULE D	SCHEDULE WY	POLL CODE	PERMIT MAX ALLOW RATE	U	ACTUAL RATE M	U	PREVIOUS RATE M	U	UF
01	40600259	24	7	52	50001	2.09	3					

000943

*PERMIT: X3561 ENGR:MANN A E / GROUP:CHEM ID:GX-3561-
ISSUED TO:FISH ENGINEERING & CONSTRUCTION, INC.

PERSON:G. J. GILL TITLE:SENIOR VICE PRESIDENT
ADDR 1:PO BOX 22535 ADDR 2:
CITY:HOUSTON STATE:TX MAIL ZIP:77027 TELEPHONE:(713) 621-9300
COMPANY BUSINESS:
LOCATION: NEAREST CITY:FREEPORT
COUNTY:BRAZORIA REGION:07 LAT:28°-58'-05" LONG:095°-17'-26.9" SITE ZIP:

*PERMIT UNIT NAME:BARGE CLEANING FACILITY
UNIT ID NUMBER: PERMANENT:X PORTABLE:
GENERAL OPERATING SCHEDULE: HR/DAY:24 DAY/WK:7 WK/YR:52
CLASSIFICATION: NEW FACILITY:X NEW PERMIT: MODIFIED: CHG LOC: CHG OWN:

*PERMIT EXEMPTION RECD:04-19-82 SUPP INFO REQ: - - RECD: - -
REGION SENT: - - RECD: - - NSPS: NESHAPS:
DISPOSITION OF EXEMPT:(I,D) (I) 06-08-82 CONST START DATE:(E,A)( ) - -
PRO TYPE: BARGE CLEANING
PRO SIZE:
SIC: 4463
SCC: - - - , - - - - , - - - - , - - - - , - - - - , - - -

*VOID PERMIT RECORD: - - ( ) HOLD PERMIT PENDING UNTIL: - - ( )
-VOID/HOLD CODES: CR-COMPANY REQUEST TI-TIME EXPIRED DD-DATA DELAY
TD-TECHNICAL DIFFICULTIES RE-REISSUED NR-NO RESPONSE

REMARKS:DATE DUE 05-19-82

*SPECIAL DATE: - - MESSAGE:
SPECIAL DATE: - - MESSAGE:

*AIR CONTAMINANT DATA: SUM OF RATES FOR ALL POINTS IN THIS PERMIT MAJOR SOURCE :( )

NAME	CODE	MAX ALL RATE	ACTUAL RATE	PREV RATE
		T/Y	T/Y	T/Y
		T/Y	T/Y	T/Y
		T/Y	T/Y	T/Y
		T/Y	T/Y	T/Y
		T/Y	T/Y	T/Y
		T/Y	T/Y	T/Y
		T/Y	T/Y	T/Y
		T/Y	T/Y	T/Y
		T/Y	T/Y	T/Y
		T/Y	T/Y	T/Y
		T/Y	T/Y	T/Y
		T/Y	T/Y	T/Y
		T/Y	T/Y	T/Y

*ABATEMENT EQUIPMENT: SUM OF EQUIPMENT FOR ALL POINTS IN THIS PERMIT

QUAN	CODE	ABATEMENT DESCRIPTION
* NO ABATEMENT INFORMATION ***		

COMMENTS

REGION - NO OBJECTIONS (J. FORSE)

LOCAL - NO LOCAL AGENCY

AQE

COMP. - NO OBJECTIONS (R. TANNIS)

LEGAL - NO LEGAL ACTION PENDING (P. SHINKAWA)

SPEC. PROV.

TECH. REVIEW THIS IS A BARGE CLEANING FACILITY LOCATED IN AN ISOLATED AREA IN BRAZORIA COUNTY NEAR FREEPORT. THE INSTALLATION OF NEW TANKAGE AND OIL/WATER SEPARATOR WILL ALLOW THE REMOVAL OF EXISTING WASTE DISPOSAL PONDS. TOTAL VOC EMISSIONS WILL NOT EXCEED 17.4 T/YR. THIS IS A MODIFICATION OF AN EXISTING FACILITY. HEATER H-1 SHALL BE FIRED NO MORE THAN 147 HRS/YR TO LIMIT NOX EMISSIONS TO < 1.9 T/YR. NOX BACT OF 0.16 #/10^6 BTU HAS BEEN MET FOR H-1 (DIESEL FUEL). OIL/WATER SEPARATOR IS COVERED. SO_2 EMISSIONS ARE ≤ 12.1 T/YR. EMISSIONS ARE INSIGNIFICANT.

J. Emba Mann
6/7/82

000945

X-Air

SE 4/20

X3561

FISH
ENGINEERING &
CONSTRUCTION, INC.
THREE POST OAK CENTRAL 1990 SOUTH POST OAK ROAD

April 14, 1982

TEXAS AIR CONTROL BOARD
6330 Highway 290 East
Austin, Texas 78723

Attention: Mr. Bill Stewart, P.E.
Executive Director

Reference: FE&CI Project 2000
Exemption from Construction Permit and Operating Permit
Freeport, Texas (Brazoria County)

Dear Sir:

In accordance with the Permit Exemption Procedures of the Texas Air Control Board, Fish Engineering & Construction, Inc. hereby applies for an exemption from the Construction Permit and the Operating Permit for its proposed new tanks and oil/water separator at its Freeport Marine Facility. In considering our request for an exemption we ask that you bear in mind the following facts and information.

1. The annual emissions from the overall plant site are estimated to be 17.4 tons per year, i.e. less than the 25 tons per year set as the upper limit for exemptions from Construction and Operating Permits.(See Exhibit I)

2. The installation of the new tankage and oil/water separator enables the existing waste disposal ponds to be removed from service and so reduces total annual emissions from their present level.

3. The isolated location of the plant site reduces any effect on population that any emissions from the plant might have.(See Exhibit II)

000946

Direct Correspondence To:
P.O. Box 22535 • Houston, Texas 77027 • (713)621-8300 • TWX 910 881 1741

If you have any questions or require any additional information please do not hesitate to contact our Dr. Richard T. Whitehead at this office.

Very truly yours,

FISH ENGINEERING & CONSTRUCTION, INC.

G. J. Gill
Senior Vice President

cc: Dr. G. B. Brown, Jr.
Acting Director
Brazoria County Health Department
Old Court House Building
Angleton, Texas 77515

Mr. Sabind Gomez, M.P.H.
Supervisor
Texas Air Control Board
5555 West Loop, Suite 300
Bellaire, Texas 77401

EMISSION SOURCES

DATE April, 1982

Review of applications and issuance of permits will be expedited by supplying all necessary information requested on this Table.

AIR CONTAMINANT DATA						EMISSION POINT DISCHARGE PARAMETERS										
EMISSION POINT [1]		CHEMICAL COMPOSITION OF TOTAL STREAM		AIR CONTAMINANT EMISSION RATE		UTM COORDINATES OF EMISSION PT. [6]			STACK SOURCES [7]					AREA SOURCES [8]	
									HEIGHT ABOVE GROUND (ft)	HEIGHT ABOVE STRUCT. (ft)	EXIT DATA				
NUMBER	NAME	COMPONENT OR AIR CONTAMINANT NAME [2]	CONC. (%v) [3]	#/HR [4]	TONS/YR [5]	ZONE	EAST (meters)	NORTH (meters)			DIA. (ft)	VEL. (fps)	TEMP. (°F)	LENGTH (ft)	WIDTH (ft)
T-1	Tank	Diesel Oil		0.002	0.001										
T-2	Tank	Diesel Oil		0.004	0.002										
T-3	Tank	Water		-	-										
T-4	Tank	Water		-	-										
T-5	Tank	Water		-	-										
T-6	Tank	Wash Water		0.117	0.089										
T-7	Tank	Hydrocarbons		0.815	0.617										
T-8	Tank	Gasoline		0.190	0.144										
T-9	Tank	Gasoline		0.265	0.200										
T-10	Tank	Chemicals Hydrocarbons		0.058	0.044										
T-11	Tank	Chemicals Hydrocarbons		0.060	0.046										

GROUND ELEVATION OF FACILITY ABOVE MEAN SEA LEVEL · 10 feet.
TACB STANDARD CONDITIONS ARE 68° F AND 14.7 PSIA [RULE 131.01.00.001(55)]

General Instructions:

1. Identify each emission point with a unique number for this plant site, consistent with emission point identification used on plot plan, previous permits and Emissions Inventory Questionnaire. Limit emission point number to 8 character spaces. For each emission point use as many lines as necessary to list air contaminant data. Typical emission point names are: heater, vent, boiler, tank, reactor, separator, baghouse, fugitive, etc. Abbreviations are OK.
2. Typical component names are: air, H_2O, nitrogen, oxygen, CO_2, CO, NO_x, SO_2, hexane, particulate matter (PM), etc. Abbreviations are OK.
3. Concentration data is required for all gaseous components. Show concentration in volume percent of total gas stream.
4. Pounds per hour (# /HR) is maximum emission rate expected by applicant.
5. Tons per year (T/Y) is annual maximum emission rate expected by applicant, which takes into account process operating schedule.
6. As a minimum applicant must furnish a facility plot plan drawn to scale showing a plant benchmark, latitude and longitude correct to the nearest second for the benchmark, and all emission points dimensioned with respect to the benchmark as required by General Application, Form PI-1. This information is essential for calculation of emission point UTM coordinates. Please show emission point UTM coordinates if known.
7. Supply additional information as follows if appropriate:
   (a) Stack exit configuration other than a round vertical stack. Show length and width for a rectangular stack. Indicate if horizontal discharge with a note.
   (b) Stack's height above supporting or adjacent structures if structure is within 3 "stack heights above ground" of stack.
   (c) If emission point is a flare, show flare data on Table 8.
8. Normally used for fugitive sources. Show dimensions of a minimum size rectangle which will "enclose" all fugitive sources included in this emission point number.

000948

EMISSION SOURCES

DATE April 1982

Review of applications and issuance of permits will be expedited by supplying all necessary information requested on this Table.

AIR CONTAMINANT DATA						EMISSION POINT DISCHARGE PARAMETERS										
EMISSION POINT [1]		CHEMICAL COMPOSITION OF TOTAL STREAM		AIR CONTAMINANT EMISSION RATE		UTM COORDINATES OF EMISSION PT. [6]			STACK SOURCES [7]					AREA SOURCES [8]	
									HEIGHT ABOVE GROUND	HEIGHT ABOVE STRUCT.	EXIT DATA				
NUMBER	NAME	COMPONENT OR AIR CONTAMINANT NAME [2]	CONC. (%v) [3]	#/HR [4]	TONS/YR [5]	ZONE	EAST (meters)	NORTH (meters)	(ft)	(ft)	DIA. (ft)	VEL. (fps)	TEMP. (°F)	LENGTH (ft)	WIDTH (ft)
T-12	Tank	Chemicals Hydrocarbons		0.060	0.045										
T-13	Tank	Water		-	-										
T-14	Tank	Water		-	-										
T-15	Tank	Hydrocarbons		0.641	0.485										
T-16	Tank	Water		-	-										
T-17	Tank	Water		-	-										
T-18	Tank	Water		-	-										
E-1	Truck Load	Chemicals Hydrocarbons		32.000	0.073										
E-2	Truck Load	Gasoline		32.000	0.018										
E-3	Truck Load	Hydrocarbons		32.000	0.050										
E-4	Truck Load	Hydrocarbons		32.000	0.275										

GROUND ELEVATION OF FACILITY ABOVE MEAN SEA LEVEL - 10 feet.
TACB STANDARD CONDITIONS ARE 68° F AND 14.7 PSIA [RULE 131.01.00.001(55)]

General Instructions:

1. Identify each emission point with a unique number for this plant site, consistent with emission point identification used on plot plan, previous permits and Emissions Inventory Questionnaire. Limit emission point number to 8 character spaces. For each emission point use as many lines as necessary to list air contaminant data. Typical emission point names are: heater, vent, boiler, tank, reactor, separator, baghouse, fugitive, etc. Abbreviations are OK.
2. Typical component names are: air, H_2O, nitrogen, oxygen, CO_2, CO, NO_x, SO_2, hexane, particulate matter (PM), etc. Abbreviations are OK.
3. Concentration data is required for all gaseous components. Show concentration in volume percent of total gas stream.
4. Pounds per hour (#/HR) is maximum emission rate expected by applicant.
5. Tons per year (T/Y) is annual maximum emission rate expected by applicant, which takes into account process operating schedule.
6. As a minimum applicant must furnish a facility plot plan drawn to scale showing a plant benchmark, latitude and longitude correct to the nearest second for the benchmark, and all emission points dimensioned with respect to the benchmark as required by General Application, Form PI-1. This information is essential for calculation of emission point UTM coordinates. Please show emission point UTM coordinates if known.
7. Supply additional information as follows if appropriate:
   (a) Stack exit configuration other than a round vertical stack. Show length and width for a rectangular stack. Indicate if horizontal discharge with a note.
   (b) Stack's height above supporting or adjacent structures if structure is within 3 "stack heights above ground" of stack.
   (c) If emission point is a flare, show flare data on Table 8.
8. Normally used for fugitive sources. Show dimensions of a minimum size rectangle which will "enclose" all fugitive sources included in this emission point number.

000949

EMISSION SOURCES

DATE April 1982

Review of applications and issuance of permits will be expedited by supplying all necessary information requested on this Table.

AIR CONTAMINANT DATA						EMISSION POINT DISCHARGE PARAMETERS										
EMISSION POINT [1]		CHEMICAL COMPOSITION OF TOTAL STREAM		AIR CONTAMINANT EMISSION RATE		UTM COORDINATES OF EMISSION PT. [6]			STACK SOURCES [7]					AREA SOURCES [8]	
									HEIGHT ABOVE GROUND (ft)	HEIGHT ABOVE STRUCT. (ft)	EXIT DATA				
NUMBER	NAME	COMPONENT OR AIR CONTAMINANT NAME [2]	CONC. (%v) [3]	#/HR [4]	TONS/YR [5]	ZONE	EAST (meters)	NORTH (meters)			DIA. (ft)	VEL. (fps)	TEMP. (°F)	LENGTH (ft)	WIDTH (ft)
H-1	Water Heater	Particulates		2.33	0.171										
		SO_2		165.10	12.135										
		SO_3		2.33	0.171										
		CO		11.63	0.855										
		Hydrocarbons		1.16	0.085										
		NO_2		25.58	1.88										

GROUND ELEVATION OF FACILITY ABOVE MEAN SEA LEVEL - 10 feet.
TACB STANDARD CONDITIONS ARE 68° F AND 14.7 PSIA [RULE 131.01.00.001(55)]

General Instructions:

1. Identify each emission point with a unique number for this plant site, consistent with emission point identification used on plot plan, previous permits and Emissions Inventory Questionnaire. Limit emission point number to 8 character spaces. For each emission point use as many lines as necessary to list air contaminant data. Typical emission point names are: heater, vent, boiler, tank, reactor, separator, baghouse, fugitive, etc. Abbreviations are OK.
2. Typical component names are: air, H_2O, nitrogen, oxygen, CO_2, CO, NO_x, SO_2, hexane, particulate matter (PM), etc. Abbreviations are OK.
3. Concentration data is required for all gaseous components. Show concentration in volume percent of total gas stream.
4. Pounds per hour (# /HR) is maximum emission rate expected by applicant.
5. Tons per year (T/Y) is annual maximum emission rate expected by applicant, which takes into account process operating schedule.
6. As a minimum applicant must furnish a facility plot plan drawn to scale showing a plant benchmark, latitude and longitude correct to the nearest second for the benchmark, and all emission points dimensioned with respect to the benchmark as required by General Application, Form PI-1. This information is essential for calculation of emission point UTM coordinates. Please show emission point UTM coordinates if known.
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   (a) Stack exit configuration other than a round vertical stack. Show length and width for a rectangular stack. Indicate if horizontal discharge with a note.
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   (c) If emission point is a flare, show flare data on Table 8.
8. Normally used for fugitive sources. Show dimensions of a minimum size rectangle which will "enclose" all fugitive sources included in this emission point number.

000950

GENERAL PROVISIONS

Storage and Loading of Carbon Compounds

A. These provisions shall not apply: (1) where the carbon compounds have an aggregate partial pressure of less than 0.5 psia at the maximum expected operating temperature or (2) to storage tanks smaller than 25,000 gallons.

B. An internal floating roof or equivalent control shall be installed on all tanks.

C. An open top tank containing a floating roof which uses double seal or secondary seal technology shall be an approved control alternative to an internal floating roof tank provided the primary seal consists of either a mechanical shoe seal or a liquid-mounted seal.

D. For any tank equipped with a floating roof, the integrity of the floating roof seals shall be verified annually and records maintained to describe dates, seal integrity and corrective actions taken.

E. The floating roof design shall incorporate sufficient flotation to conform to the requirements of API Code 650, Appendix C, or an equivalent degree of flotation, except that an internal floating cover need not be designed to meet rainfall support requirements.

F. Uninsulated tank exterior surfaces exposed to the sun shall be white.

G. For purposes of assuring compliance with carbon compound emission limitations, the holder of this permit shall maintain a monthly emissions record which describes calculated emissions of carbon compounds from all storage tanks and loading operations. The records shall include tank or loading point identification number, control method used, tank or vessel capacity in gallons, name of the material stored or loaded, material molecular weight, material monthly average temperature in degrees Fahrenheit, material vapor pressure at the monthly average material temperature in psia, material throughput for the previous month and year-to-date in gallons, and total tons of emissions including controls for the previous month and year-to-date. This record shall be made available to representatives of the Board upon request.

H. Emissions for tanks and loading operations shall be calculated using the edition of AP-42, "Compilation of Air Pollutant Emission Factors", in effect on the date this permit was issued (or the edition in effect on the last date the permit was amended if the permit has been amended).

I. Controlled and uncontrolled emissions of carbon compounds shall be calculated for storage tanks using the following meteorological data as monthly average values:

	Monthly Average
Daily temperature change, °F	
Wind speed, mph	
Station pressure, psia	

TEXAS-BRAZORIA CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

6942 III SE
(OYSTER CREEK)

3 190 000 FEET

95°15'
29°00'
57'30"

440 000 FEET

Dutch Lake
Oyster Creek
Airport
PIPELINE
Radio Tower
Horseshoe Lake
△Horseshoe
UNION
BAYOU
CANAL
Pumping Sta
BM 3
Lock
Plant
Midway
Pumping Sta
Stauffer Turning Basin
CHEMICAL PLANT
Substa
Well
Channel Dredgings
Brazosport Turning Basin
Upper Turning Basin
Big Bend
Brazos
Bend △
OYSTER CREEK
Cone Island
East Union Bayou
Gaging Rod
Lighthouse
Surfside
Coast Guard Station
Surfside Beach
△Light
Fresh Water Lake
Bayou
Stub
OLD INTRACOASTAL WATERWAY
INTRACOASTAL WATERWAY
Sheet
Lake
Swan
Oyster Creek
Cut
Pier
Well
POINT

TABLE 7

STORAGE TANK SUMMARY

APR 19 19[illegible]

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING & CONSTRUCTION, INC.

2. TANK LOCATION: FREEPORT, TEXAS

3. TANK IDENTIFICATION (NUMBER OR NAME): T-9 Gasoline Storage Tank

4. TANK CAPACITY: BARRELS _____ GALLONS 4,771

5. TANK DIMENSIONS: DIAMETER 6'9" HEIGHT _____ LENGTH 17'8" WIDTH _____

6. TANK SHAPE: CYLINDRICAL [X] SPHERICAL [ ] OTHER SHAPE [ ] DESCRIBE _____

7. TANK MATERIALS OF CONSTRUCTION: STEEL [X] WOOD [ ] OTHER [ ] SPECIFY _____

8. TANK PAINT: CHALKING WHITE [ ] LIGHT GREY [X] ALUMINUM [ ] DARK COLOR OR NO PAINT [ ]

9. TANK CONDITION: GOOD [ ] FAIR [X] POOR [ ]

10. TANK STATUS: NEW CONSTRUCTION [ ] ALTERATION [ ] Existing

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF [X] PRESSURE [ ] INTERNALLY HEATED [ ] UNDERGROUND [ ]
FLOATING ROOF [ ] OPEN TOP [ ] INSULATED [ ] OTHER [ ]

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
TYPE OF ROOF: DOUBLE DECK [ ] PONTOON [ ] OTHER [ ] DESCRIBE _____
TYPE OF SEAL: SINGLE [ ] DOUBLE [ ] OTHER [ ] DESCRIBE _____
TYPE OF SHELL CONSTRUCTION: RIVETED [ ] WELDED [ ] OTHER [ ] DESCRIBE _____

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

	NUMBER	PRESSURE SETTING	VACUUM SETTING	DISCHARGING TO: (CHECK) ATMOSPHERE	VAPOR CONTROL	FLARE
COMBINATION						
PRESSURE						
VACUUM						
OPEN	1			X		

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK: Gasoline
DENSITY: _____ LBS/GAL. (OR) _____ °A.P.I.

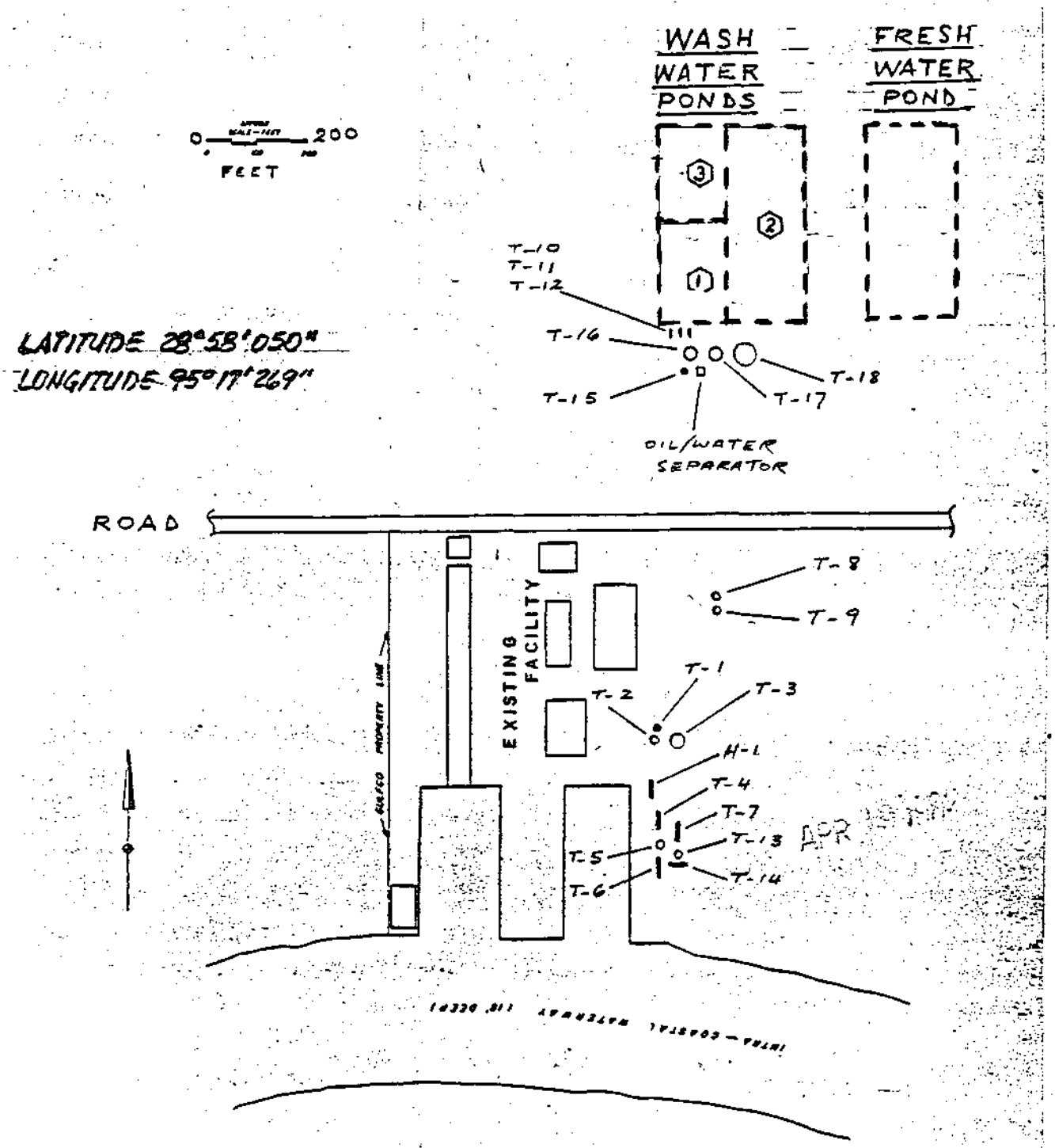
16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK:
MINIMUM TEMPERATURE _____ °F MAXIMUM TEMPERATURE _____ °F Ambient

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
VAPOR PRESSURE: 10.0 LBS. REID (OR) _____ LBS. PER SQ. IN. ABSOLUTE AT 90 °F
INITIAL BOILING POINT: _____ °F
FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: _____ °F

18. OPERATIONAL DATA:
MAXIMUM FILLING RATE: _____ BARRELS PER HOUR (OR) 3300 GALLONS PER HOUR
AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) 3 FT
AVERAGE THROUGHPUT: _____ BARRELS PER DAY (OR) _____ GALLONS PER DAY
TANK TURNOVERS PER YEAR: 2

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
NAME OF SOLVENT: _____ NAME OF MATERIAL DISSOLVED: _____
CONCENTRATION OF MATERIAL DISSOLVED: _____ % BY WEIGHT (OR) _____ % BY VOLUME (OR _____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
IDENTIFY THE MATERIAL: _____
PRESSURE AT WHICH MATERIAL IS STORED: _____ LBS. PER SQ. IN. GAGE AT _____ °F



No.	REVISIONS	APP.	DATE

FISH ENGINEERING & CONSTRUCTION, INC.
HOUSTON, TEXAS

FISH FREEPORT MARINE FACILITY
SKETCH PLOT PLAN

000954

DRW _____ CHK _____ DATE _____ JOB No. 2000
APP _____ SCALE _____ DWG. No.

X - 3561 5/10/82

2^{50}p

[redacted]

X 417

Richard Whitehead

[redacted] H-1 H_2O heater

Operating

23 F.O. (#6)

3 wick oil

#6 heavy oil burner requires hot H_2O

Keep record.

He will go along w/ Record Keeping - restrict operation to 147 hrs/year for the boiler - hot H_2O - heater.

```
APR 30, 1982
   11:47:06   LOGON 2759   ORIGINATING LSN: 51
                           USERCODE: PM43U.
                           PCS: 1
                           CHARGE CODE: AMEA.
                           STATION NAME: TAC851.
                           SIGN ON BY SESSION SPLIT

   11:47:16   BCT  2760   (PM43U)BASICFORM ON MPAC.
                           CODE COMPILED: MAR 29, 1979 15:10:56 BY CCBC
                           TASK TYPE: DEPENDENT TASK(PROCESS)
                           PRIORITY: 59
                           USERCODE: PM43U.
                           CHARGECODE: AMEA.
   11:47:17   ECT  2760   (PM43U)BASICFORM ON MPAC.
                           PROCESSOR TIME: 00:00:00.087  USERCODE: PM43
                           I/O       TIME: 00:00:00.141  CHARGECODE: AM
                           READYQ    TIME: 00:00:00.028  AVERAGE MEMORY
                           INITPBIT  TIME: 00:00:00.055  MEMORY INTEGRA
                           OTHERPBIT TIME: 00:00:00.002  DATA & CODE AL
                           ELAPSED   TIME: 00:00:00.859  INITIAL PBITS:

   11:47:19   BCT  2761   (PM43U)OBJECT/BASIC/TASK2/01 ON MPAC.
                           TASK TYPE: DEPENDENT TASK(PROCESS)
                           PRIORITY: 59
                           USERCODE: PM43U.
                           CHARGECODE: AMEA.
   11:47:19           2761 REQUIRES BASIC SUPPORT LIBRARY
   11:53:48   ECT  2761   (PM43U)OBJECT/BASIC/TASK2/01 ON MPAC.
                           PROCESSOR TIME: 00:00:01.559  USERCODE: PM43
                           I/O       TIME: 00:00:00.650  CHARGECODE: AM
                           READYQ    TIME: 00:00:01.601  LINES PRINTED:
                           INITPBIT  TIME: 00:00:00.567  AVERAGE MEMORY
                           OTHERPBIT TIME: 00:00:00.037  MEMORY INTEGRA
                           ELAPSED   TIME: 00:06:29.585  DATA & CODE AL
                                                         INITIAL PBITS:

   11:53:49   LOGOFF 2759  USERCODE: PM43U.
                           SIGN OFF BY SPLIT SESSION
                           PROCESSOR TIME: 00:00:00.148
                           I/O       TIME: 00:00:00.024
                           ELAPSED   TIME: 00:05:43.295
```

RECEIVED

MAY 21 1982

REGION 7

TEXAS AIR CONTROL BOARD

6/81

REQUEST FOR COMMENTS

PERMITS SECTION

DATE 5/18/82

FROM: ANNA MANN

☐ CONFIDENTIAL INFORMATION ATTACHED.

☒ REGION: (7) ☐ CITY: ☐ COUNTY:

☐ AR&A: ☒ COMPLIANCE: ☒ LEGAL

PERMIT APPLICATION NO. C-

PERMIT EXEMPTION NO. V-3561

Applicant indicates copy of application was sent direct to:

☒ Region ☐ City ☐ County

1. COMPANY: FISH ENGINEERING & CONSTRUCTION, INC.
2. FACILITY LOCATION: FREEPORT, BRAZORIA COUNTY
3. LATITUDE: 28°-58'-05" LONGITUDE: 095°-17'-26.9" COMPANY I.D. NO: ___-_____-__ ADD
4. PERMIT UNIT NAME: BARGE CLEANING FACILITY UNIT I.D.: _____
5. PREVIOUS RELATED PERMITS/EXEMPTIONS: _____
6. ☐ - NEW SOURCE ☒ - MODIFICATION ☐ - NSPS ☐ - NESHAPS ☐ - PORTABLE ☐ - PSD
   ☐ - PERMIT AMENDMENT ☐ - PERMIT REVISION OR CHANGE
   DATE: _____ for ☐ - PROPOSED START OF CONSTRUCTION. ☐ - CONSTRUCTION STARTED.
   ☐ - FACILITY BUILT AND OPERATING ☐ - AS SOON AS PERMIT IS ISSUED.
7. NAME AND RATE OF AIR CONTAMINANTS: OPER SCHED: ___ H/D: ___ D/W: ___ W/Y: ___ ✓ CONTINUOUS - SEE BARGE SCHEDULE EXCEPT FOR HEATER

Air Contaminant	Permit Max. Allow. Rate	M*	Actual Rate	Previous Rate	Comments
VOC	17.4 T/YR	AD&EF			
*SO_2	12.1 T/YR	"			
*NOX	1.88 T/YR	"			

M* - Method of Calculation or source of information for Permit Maximum Allowable Rate -
EF - Emission Factors, AD - Application Data; SP - Similar Permit Data;
EPA - EPA Documents, EST - Estimate; TD - Test Data or other:

( ) Explain _____

8. METHOD OF AIR POLLUTION CONTROL: ☐ - NONE ☒ - BACT (Standard) ☐ - BACT (transferred)
   ☐ - PROCESS CONTROL ☐ - ABATEMENT EQUIPMENT: BACT ON HEATER (DIESEL) OF 0.16# NOX/10^6 BTU HEAT INPUT.
9. ENGR. COMMENTS/TECHNICAL REVIEW/RECOMMENDATION: ☐ ISSUE ☒ EXEMPTION ☐ DENY
   EMISSIONS ARE INSIGNIFICANT
10. PROPOSED SPECIAL PROVISIONS (Other than General Provisions and Maximum Allowables):
    * WATER HEATER WILL BE LIMITED TO FIRING NO MORE THAN 147 HRS W/RECORDS OF OPERATION TO VERIFY (ANNUAL FIRING PERIOD)
    * RECORDS ON BARGES CLEANED AND MATERIALS EMITTED.

REQUESTED COMMENTS: (Please return your comments promptly.) ☐ RUSH

SITE OR LOCATION:
☐ SATISFACTORY
☐ QUESTIONABLE
☐ UNSATISFACTORY

☐ SEE SIS DATED _____
☒ NO OBJECTIONS.
☐ COMMENTS _____

000957

C.C. FILE

Annual Fuel 5/25/82

6/81

TEXAS AIR CONTROL BOARD COMMENTS

MAY 19 4 22 PM '82 PERMITS SECTION

COMPLIANCE DIVISION

DATE 5/18/82

TO: FROM: AMBA MANN

☐ CONFIDENTIAL INFORMATION ATTACHED.

TO: ☒ REGION 7 ☐ CITY: ☐ COUNTY:

☐ AR&A: ☒ COMPLIANCE ☒ LEGAL

PERMIT APPLICATION NO. C-

PERMIT EXEMPTION NO. X- 3561

Applicant indicates copy of application was sent direct to:

☒ Region ☐ City ☐ County

1. COMPANY: FISH ENGINEERING & CONSTRUCTION, INC
2. FACILITY LOCATION: FREEPORT, BRAZORIA COUNTY
3. LATITUDE: 28° 58' 05" LONGITUDE: 095° 17' 26" COMPANY I.D. NO: ___ - ___ - ___ ADD
4. PERMIT UNIT NAME: BARGE CLEANG FACILITY UNIT I.D.:
5. PREVIOUS RELATED PERMITS/EXEMPTIONS:
6. ☐ - NEW SOURCE ☒ - MODIFICATION ☐ - NSPS ☐ - NESHAPS ☐ - PORTABLE ☐ - PSD
   ☐ - PERMIT AMENDMENT ☐ - PERMIT REVISION OR CHANGE
   DATE: ______ for ☐ - PROPOSED START OF CONSTRUCTION. ☐ - CONSTRUCTION STARTED.
   ☐ - FACILITY BUILT AND OPERATING ☐ - AS SOON AS PERMIT IS ISSUED.
7. NAME AND RATE OF AIR CONTAMINANTS: OPER SCHED: ___ H/D; ___ D/W; ___ W/Y; ✓ CONTINUOUS - SEE BARGE SCHEDULE EXCEPT FOR HEATER

Air Contaminant	Permit Max. Allow. Rate	M*	Actual Rate	Previous Rate	Comments
VOC	17.4 T/YR	AD+EF			
*SO_2	12.1 T/YR	"			
*NOX	1.88 T/YR	"			

M* - Method of Calculation or source of information for Permit Maximum Allowable Rate -
EF - Emission Factors; AD - Application Data; SP - Similar Permit Data;
EPA - EPA Documents; EST - Estimate; TD - Test Data or other:
( ) Explain

8. METHOD OF AIR POLLUTION CONTROL: ☐ - NONE ☒ - BACT (Standard) ☐ - BACT (transferred)
   ☐ - PROCESS CONTROL ☐ - ABATEMENT EQUIPMENT: BACT ON HEATER (DIESEL) OF 0.16 # NOX / 10^6 BTU HEAT INPUT.

9. ENGR. COMMENTS/TECHNICAL REVIEW/RECOMMENDATION: ☐ ISSUE ☒ EXEMPTION ☐ DENY
   EMISSIONS ARE INSIGNIFICANT

10. PROPOSED SPECIAL PROVISIONS (Other than General Provisions and Maximum Allowables):
   * WATER HEATER WILL BE LIMITED TO FIRING NO MORE THAN 147 HRS W/RECORDS OF OPERATION TO VERIFY (ANNUAL FIRING PERIOD)
   RECORDS ON BARGES CLEANED AND MATERIALS EMITTED.

REQUESTED COMMENTS: (Please return your comments promptly.) ☐ RUSH

SITE OR LOCATION:
☐ SATISFACTORY
☐ QUESTIONABLE
☐ UNSATISFACTORY

☐ SEE SIS DATED
☒ NO OBJECTIONS.
☐ COMMENTS

000958

[signature]
5/21/82

6/81

REQUEST FOR COMMENTS

PERMITS SECTION

DATE 5/18/82

FROM: AMBA MANN TRS 5/19/82

PERMIT APPLICATION NO. C-

PERMIT EXEMPTION NO. X- 3561

☐ CONFIDENTIAL INFORMATION ATTACHED.

TO: ☒ REGION: 7 ☐ CITY: ☐ COUNTY:

☐ AR&A; ☒ COMPLIANCE. ☒ LEGAL

Applicant indicates copy of application was sent direct to:

☒ Region ☐ City ☐ County

1. COMPANY: FISH ENGINEERING & CONSTRUCTION, INC
2. FACILITY LOCATION: FREEPORT, BRAZORIA COUNTY
3. LATITUDE: 28° 58' 05" LONGITUDE: 095° 17' 269 COMPANY I.D. NO: ___ - ___ - ___ ADD
4. PERMIT UNIT NAME: BARGE CLEANING FACILITY UNIT I.D.:
5. PREVIOUS RELATED PERMITS/EXEMPTIONS:
6. ☐ - NEW SOURCE ☒ - MODIFICATION ☐ - NSPS ☐ - NESHAPS ☐ - PORTABLE ☐ - PSD
   ☐ - PERMIT AMENDMENT ☐ - PERMIT REVISION OR CHANGE
   DATE: ________ for ☐ - PROPOSED START OF CONSTRUCTION. ☐ - CONSTRUCTION STARTED.
   ☐ - FACILITY BUILT AND OPERATING ☐ - AS SOON AS PERMIT IS ISSUED.
7. NAME AND RATE OF AIR CONTAMINANTS: OPER SCHED: ___ H/D; ___ D/W; ___ W/Y; ✓ CONTINUOUS - SEE BARGE SCHEDULE EXCEPT FOR HEATER

Air Contaminant	Permit Max. Allow. Rate	M*	Actual Rate	Previous Rate	Comments
VOC	17.4 T/YR	AD/EF			
*SO₂	12.1 T/YR	"			
*NOX	1.88 T/YR	"			

M* - Method of Calculation or source of information for Permit Maximum Allowable Rate -
EF - Emission Factors; AD - Application Data; SP - Similar Permit Data;
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( ) Explain

8. METHOD OF AIR POLLUTION CONTROL: ☐ - NONE ☒ - BACT (Standard) ☐ - BACT (transferred)
   ☐ - PROCESS CONTROL ☐ - ABATEMENT EQUIPMENT: BACT ON HEATER (DIESEL) OF 0.16 # NOX / 10^6 BTU HEAT INPUT.
9. ENGR. COMMENTS/TECHNICAL REVIEW/RECOMMENDATION: ☐ ISSUE ☒ EXEMPTION ☐ DENY
   EMISSIONS ARE INSIGNIFICANT
10. PROPOSED SPECIAL PROVISIONS (Other than General Provisions and Maximum Allowables):
   * WATER HEATER WILL BE LIMITED TO FIRING NO MORE THAN 147 HRS W/RECORDS OF OPERATION TO VERIFY (ANNUAL FIRING PERIOD)
   RECORDS ON BARGES CLEANED AND MATERIALS EMITTED.

REQUESTED COMMENTS: (Please return your comments promptly.) ☐ RUSH

SITE OR LOCATION:
☐ SATISFACTORY
☐ QUESTIONABLE
☐ UNSATISFACTORY

☐ SEE SIS DATED
☐ NO OBJECTIONS.
☐ COMMENTS

000959

6/81

REQUEST FOR COMMENTS

PERMITS SECTION

DATE: 5/18/82

☐ CONFIDENTIAL INFORMATION ATTACHED.

FROM: ANIBA MANN

TO: ☒ REGION: 7 ☐ CITY: ☐ COUNTY:
☐ AR&A: ☒ COMPLIANCE ☒ LEGAL

PERMIT APPLICATION NO. C-

PERMIT EXEMPTION NO. X- 3561

Applicant indicates copy of application was sent direct to:
☒ Region ☐ City ☐ County

1. COMPANY: FISH ENGINEERING & CONSTRUCTION, INC.
2. FACILITY LOCATION: FREEPORT, BRAZORIA COUNTY
3. LATITUDE: 28° 58' 05" LONGITUDE 095° 17' 26.9" COMPANY I.D. NO: ___ - ____ - __ ADD
4. PERMIT UNIT NAME: BARGE CLEANING FACILITY UNIT I.D.:
5. PREVIOUS RELATED PERMITS/EXEMPTIONS:
6. ☐ - NEW SOURCE ☒ - MODIFICATION ☐ - NSPS ☐ - NESHAPS ☐ - PORTABLE ☐ - PSD
☐ - PERMIT AMENDMENT ☐ - PERMIT REVISION OR CHANGE
DATE: _____ for ☐ - PROPOSED START OF CONSTRUCTION. ☐ - CONSTRUCTION STARTED.
☐ - FACILITY BUILT AND OPERATING ☐ - AS SOON AS PERMIT IS ISSUED.
7. NAME AND RATE OF AIR CONTAMINANTS: OPER SCHED: ___ H/D: ___ D/W: ___ W/Y: ✓ CONTINUOUS - SEE BARGE SCHEDULE EXCEPT FOR HEATER

Air Contaminant	Permit Max. Allow. Rate	M*	Actual Rate	Previous Rate	Comments
VOC	17.4 T/YR	AD,EP			
*SO_2	12.1 T/YR	"			
*NOX	1.88 T/YR	"			

M* - Method of Calculation or source of information for Permit Maximum Allowable Rate -
EP - Emission Factors; AD - Application Data; SP - Similar Permit Data;
EPA - EPA Documents; EST - Estimate; TD - Test Data or other;
( ) Explain

8. METHOD OF AIR POLLUTION CONTROL: ☐ - NONE ☒ - BACT (Standard) ☐ - BACT (transferred)
☐ - PROCESS CONTROL ☐ - ABATEMENT EQUIPMENT: BACT ON HEATER (DIESEL) OF 0.16# NOX / 10^6 BTU HEAT INPUT.

9. ENGR. COMMENTS/TECHNICAL REVIEW/RECOMMENDATION: ☐ ISSUE ☒ EXEMPTION ☐ DENY
EMISSIONS ARE INSIGNIFICANT

10. PROPOSED SPECIAL PROVISIONS (Other than General Provisions and Maximum Allowables):
* WATER HEATER WILL BE LIMITED TO FIRING NO MORE THAN 147 HRS W/RECORDS OF OPERATION TO VERIFY (ANNUAL FIRING PERIOD)
RECORDS ON BARGES CLEANED AND MATERIALS EMITTED.

REQUESTED COMMENTS: (Please return your comments promptly.) ☐ RUSH

SITE OR LOCATION:
☐ SATISFACTORY
☐ QUESTIONABLE
☐ UNSATISFACTORY

☐ SEE SIS DATED _____
☐ NO OBJECTIONS.
☐ COMMENTS No legal action pending
6/20/82 MS

000960

4/30/82 11:53 DO BAS/TANK2

AP-42 SUPPLEMENT 12 STORAGE TANK LOSSES

AME: A MANN FISH ENGG X3561 GASOLINE

TORAGE TANK SUMMARY :

(1) ROOF TYPE	-FIXED		
(2) DIAMETER	- 6.2	FEET	
(3) CAPACITY	- 4771	GALLONS	
	- 113.59523810	BARRELS	
(4) AVERAGE TURNOVERS	- 2	(ANNUAL)	
(5) TEMP. INCR. (DEG F)	- 3.5	(GRAY)	
(6) AVERAGE OUTAGE	- 3	FEET	
(7) TANK PAINT FACTOR	- 1.44	F(P)	
(8) FIXED ROOF LIQUID FACTORS	- 1	BREATHING	
	- 1	WORKING	

IQUID DATA SUMMARY:

(1) LIQUID TYPE	-PETROLEUM LIQ.		
(2) TRUE VAPOR PRESSURE	- 6.552	PSIA	
(3) DENSITY	- 5.60	LB/GAL	
	- 77.23	DEG API	
(4) MOLECULAR WEIGHT	- 66.00	LB/LB-MOLE	

ETEOROLOGICAL DATA SUMMARY:

(1) AVERAGE DAILY TEMP CHANGE	- 9.5	DEG F
(2) AVERAGE ANNUAL TEMP	- 69.0	DEG F
(3) AVERAGE WIND VELOCITY	- 11	MPH
(4) AVERAGE STATION PRESSURE	- 14.7	PSIA

VAPORATIVE EMISSIONS SUMMARY:

TYPE EMISSION	POUNDS/HR	TONS/YEAR
(1)FIXED ROOF- BREATHING LOSS (UNCONT)	.011	.048
(2)FIXED ROOF- WORKING LOSS (UNCONT)	.011	.048
---> FIXED ROOF TOTAL LOSS (UNCONT)	.022	.096

000961

TABLE 6

BOILERS AND HEATERS

Type of Device: Water Heater		Manufacturer: F & T	
Number from flow diagram: H-1		Model Number: TX-115841	

CHARACTERISTICS OF INPUT

Type Fuel	Chemical Composition (% by Weight)	Inlet Air Temp °F (after preheat)	Fuel Flow Rate (scfm* or lb/hr)	
			Average	Design Maximum
Diesel Oil		No Preheat	5,000 lb/hr	8,000 Lb/Hr.
		Gross Heating Value of Fuel (specify units)	Total Air Supplied and Excess Air	
			Average	Design Maximum
		19,750 Btu/Lb	_____ scfm* 25 % excess (vol)	_____ scfm* 100 % excess (vol)

HEAT TRANSFER MEDIUM

Type Transfer Medium (Water, oil, etc.)	Temperature °F		Pressure (psia)		Flow Rate (specify units)	
	Input	Output	Input	Output	Average	Design Maximum
Water	Ambient	200°F	164 psia	164 psia	10.4 GPM	17.3 GPM

OPERATING CHARACTERISTICS

Ave. Fire Box Temp. at max. firing rate	Fire Box Volume (ft.^{3}), (from drawing)	Gas Velocity in Fire Box (ft/sec) at max firing rate	Residence Time in Fire Box at max firing rate (sec)
1300°F	19 2 cu. ft. approx.		1.82 sec.

STACK PARAMETERS

Stack Diameters	Stack Height	Stack Gas Velocity (ft/sec)		Stack Gas	Exhaust
		(@Ave.Fuel Flow Rate)	(@Max.Fuel Flow Rate)	Temp °F	scfm
30"	10 ft.		21.4 ft/sec	600°F	6300

CHARACTERISTICS OF OUTPUT

Material	Chemical Composition of Exit Gas Released (% by Volume)	
Particulate	2.33 lb/hr	342 lb/yr
SO2	165.10	24270
SO3	2.33	342
CO	11.63	1710
Hydrocarbons	1.16	170
NO2	25.58	3760

Attach an explanation on how temperature, air flow rate, excess air or other operating variables are controlled.

Also supply an assembly drawing, dimensioned and to scale, in plan, elevation, and as many sections as are needed to show clearly the operation of the combustion unit. Show interior dimensions and features of the equipment necessary to calculate in performance.

* Standard Conditions: 70°F, 14.7 psia

000962

X 3561

E-1 TO VACUUM TRUCK

ATMOS.

VACUUM PUMPS

ATMOS.

T-7 STRIPPED OIL SETTLING TANK

E-3 TO VACUUM TRUCK

T-12

T-11

T-10

T-13

T-14

T-4

T-5 SOLIDS K.O. POT

T-6 WATER RECYCLE TANK

T-7

T-6

T-4 WASH WATER VACUUM TANK

T-10,11,12 PRODUCT STORAGE TANKS

FM. FRESH WATER POND

FM. FRESH WATER WELL PUMP

T-3

T-1 DIESEL OIL DAY TANK

GENERAL USE

H-1

H-1 WATER HEATER

T-3 FRESH WATER TANK

T-2

T-1

T-2 MAIN DIESEL OIL STORAGE TANK

RECYCLE WATER

OIL/WATER SEPARATOR

FLEXIBLE HOSE

SPRAY

BARGE

T-18 5000 BBL

T-17 1000 BBL

T-16 1000 BBL

TO BARGE DISPOSAL

E-4 TO VACUUM TRUCK

T-15

T-15 SLOP OIL TANK

T-8

T-9

T-8&9 GASOLINE STORAGE TANK

E-2 TO VEHICLE FUEL TANKS

RECEIVED
APR 19 1982

No.	REVISIONS*	APP.	DATE

FISH ENGINEERING & CONSTRUCTION, INC. HOUSTON, TEXAS

CUSTOMER FISH FREEPORT MARINE FACILITY

000963

DRW. EB CHK. ____ APP. ____ DATE 4-6-82 JOB No. 2000 DWG. No.

FEC 101

EXHIBIT I

INDEX

1. FISH FREEPORT MARINE FACILITY OPERATION

The Fish Freeport Marine Facility is for the construction of offshore gas and oil production platforms and the repair of cargo-carrying barges. The repair of barges usually requires cleaning of the barges' tanks by washing and gas-freeing to enable work crews to cut and weld in safety. On the average, one barge is cleaned every three days and requires 9,000 gallons for proper cleaning. In exceptional cases 25,000 gallons can be required to wash a large barge. About 4 percent of the barges washed have a carrying capacity of 88,000 barrels, 18 percent have a capacity of about 20,000 barrels and the remaining 32 percent have a capacity of about 10,000 barrels. Gas-freeing a large 20,000 barrel barge takes 4 to 8 hours while for a 10,000 barrel barge the gas can be removed from the tanks in 2-3 hours. However, barges in volatile liquids service, such as cyclohexane or acetone, arrive with their hatches open so that their tanks are usually dry and free of vapors on docking.

Before wahing can take place, any remaining heel of product is pumped out and stored in the Product Storage Tanks, T-10, T-11 and T-12, or the Stripped Oil Settling Tank, T-7 (See attached flowsheet). The pumping (called stripping) is done by a portable air-operated pump which uses a flexible hose to reach into the barges' tank sumps. On the average, a barge has 3 to 6 tanks with 50 gallons of heel in each tank sump. Periodically the Product Storage and Stripped Oil Settling Tanks are emptied into trucks and the contents sold for fuel or chemical use. About one barge in 20 requires stripping before washing begins.

Each tank in a barge is washed with a Butterworth machine which projects a rotating spray of wash water throughout the tank. Cold high pressure water sprays are usually sufficient to clean tanks to enable repair work to begin. However, for viscous liquids, such as crude oil or No. 6 fuel oil, hot water is usually required to assure cleanliness. A fire-tube diesel oil-fired heater, H-1, provides the hot water. Water for the water heater and for washing comes from a well on site or from a fresh water pond on site.

Water consumption is reduced by recycling. Clean water recycles through the Water Recycle Tank, T-6. Oil and dirty water recycles through the new system consisting of an oil/water gravity separator, two 1000 barrel tanks and one 5000 barrel tank. The separator is a totally enclosed box and uses corrugated inclined plates to separate oil and heavy sludges from the circulating wash water. The tanks store re-used water for up to 90 days, after which the water is removed from the site by road trucks or barge for disposal.

Oil skimmed from the water in the separator flows by gravity into the Slop Oil Tank, T-15. When the Slop Oil Tank is full the contents are sold as fuel and transported from the plant site in tank trucks.

Residual water in barges' tanks contains rust particles, scale and sludge which must be removed by vacuum. Two vacuum pumps provide suction through a flexible hose to pump out the water remaining in the tanks and separate out the solids and sludge in settling tanks. One settling system consists of an inclined Solids K.O. Pot, T-5, together with a horizontal Wash Water Vacuum Tank T-4. The new system of improved design consists of a vertical tank T-13 and a horizontal tank T-14. Water from the vacuum tanks goes to the oil/water separator and then to the wash water storage tanks, T-16, T-17, and T-18 for re-use and eventual disposal.

3. METHOD OF CALCULATION

The calculation of emissions from the equipment at the Fish Freeport Marine Facility followed the methods laid down in "Compilation of Air Pollutant Emission Factors", 3rd. Edition, AP-42, published by the U.S. Environmental Protection Agency. Breathing and working losses were calculated for each storage tank, and for the oil/water separator the only loss calculated was the breathing loss since the level in the separator remains constant. Emissions from the diesel oil-fired water heater were calculated using distillate oil fired industrial boiler factors with heat input rates between 15 and 250 million Btu per hour.

In accordance with the Partial Stay of Regulations published by the U.S. Environmental Protection Agency in the Federal Register, Volume 46, No. 242, Thursday, December 17, 1981, the emissions from the barges have not been included in the total facility annual emissions.

Calculations of emissions from storage tanks and truck loading were made for the worst case in each instance and then adjusted to approach more nearly the actual expected operating conditions. The table on the following page lists the worst case results using gasoline (RVP= 13.0 psi) for the most volatile hydrocarbon handled. Since in fact gasoline and other volatile hydrocarbons and chemicals represented a minor portion of the cargoes transported by the barges washed at the Marine Facility, these results were recalculated using a weighted vapor pressure reflecting the actual historical mix of cargoes rather than the high vapor pressure of the worst case. The recalculated results are listed in Section 5 of this Exhibit I.

Truck loading emissions were estimated assuming that about 20 minutes are required to load 1000 gallons into a truck.

SUMMARY OF ANNUAL STORAGE TANK AND TRUCK LOADING EMISSIONS - WORST CASE

SOURCE	CONTENTS	LB/YR
T-1	Diesel Oil	15.4
T-2	Diesel Oil	30.9
T-3	Water	-
T-4	Water	-
T-5	Water	-
T-6	Acetone/Water	1028
T-7	Gasoline	7141.5
T-8	Gasoline	1667.3
T-9	Gasoline	2321.5
T-10	MEK	505
T-11	MEK	528
T-12	MEK	522
T-13 (New)	Water	-
T-14 (New)	Water	-
T-15 (New)	Gasoline	5616
Oil/Water Separator (New)	Gasoline	245
T-16 (New)	Water	-
T-17 (New)	Water	-
T-18 (New)	Water	-

TRUCK LOADING (GASOLINE)

E-1	Product Storage Tanks	840
E-3	Stripped Oil Settling Tank	583
E-2	Gasoline Storage Tanks	209
E-4	Slop Oil Tank	3184

24436 = 12.21 tons/yr.

4. TYPICAL MIX OF BARGE CARGOES FOR WASHING AT FREEPORT MARINE FACILITY

Period June 1980 to August 1981

CARGO	NUMBER OF BARGES
No. 6 fuel oil	23
No. 2 fuel oil	1
Crude Oil	3
Diesel oil	5
C_5 Oil	1
Oil Residues	1
C_9 Oil	1
Naphtha	3
Gasoline	2
Lactol Solvent (C_6-C_8)	1
Gasoline Additive	1
Silicate Oil	1
Catalytic Reformer Feed Oil	2
Gas Oil	1
Benzene	24
Xylene	4
Toluene	7
Cyclohexane	9
Cumene	1
Ethylbenzene	2
Styrene	3
Caustic Soda	8
Hydrochloric Acid	2
Sulphuric Acid	1
Fertilizer	1
Calcium Chloride	7
Ethylene Glycol	3
Diethylene Glycol	1
Polyalkylene Glycols	6
Methanol	1
Butanol	2
Niax Polyol	1
Chloroform	2
Perhloroethylene	1
Vinyl Chloride	1
Chlorine	4
Acetic Acid	5
Acetone	3
Methylethyl Ketone	2
Vinyl Acetate	1
Ballast Water	3
TOTAL	151

FORM PI-2 (rev.)

TABLE 7

STORAGE TANK SUMMARY

Three copies of this form must be submitted for each storage tank. APR

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING AND CONSTRUCTION, INC.

2. TANK LOCATION: Freeport, Texas

3. TANK IDENTIFICATION (NUMBER OR NAME): T-1 Diesel Oil Day Tank

4. TANK CAPACITY: BARRELS ____ 1,008 GALLONS

5. TANK DIMENSIONS: DIAMETER 3'8" HEIGHT ____ LENGTH 12'0" WIDTH ____

6. TANK SHAPE: CYLINDRICAL [X] SPHERICAL [ ] OTHER SHAPE [ ] DESCRIBE ____

7. TANK MATERIALS OF CONSTRUCTION: STEEL [X] WOOD [ ] OTHER [ ] SPECIFY ____

8. TANK PAINT: CHALKING WHITE [ ] LIGHT GREY OR BLUE [X] ALUMINUM [ ] DARK COLOR OR NO PAINT [ ]

9. TANK CONDITION: GOOD [ ] FAIR [X] POOR [ ]

10. TANK STATUS: NEW CONSTRUCTION [ ] ALTERATION [ ] Existing

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF [X] PRESSURE [ ] INTERNALLY HEATED [ ] UNDERGROUND [ ]
FLOATING ROOF [ ] OPEN TOP [ ] INSULATED [ ] OTHER [ ]

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
TYPE OF ROOF: DOUBLE DECK [ ] PONTOON [ ] OTHER [ ] DESCRIBE ____
TYPE OF SEAL: SINGLE [ ] DOUBLE [ ] OTHER [ ] DESCRIBE ____
TYPE OF SHELL CONSTRUCTION: RIVETED [ ] WELDED [ ] OTHER [ ] DESCRIBE ____

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

	NUMBER	PRESSURE SETTING	VACUUM SETTING	DISCHARGING TO: (CHECK) ATMOSPHERE	VAPOR CONTROL	FLARE
COMBINATION						
PRESSURE						
VACUUM						
OPEN	1			X		

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK: DIESEL OIL
DENSITY: ____ LBS/GAL. (OR) 40 °A.P.I.

16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK:
MINIMUM TEMPERATURE ____ °F MAXIMUM TEMPERATURE ____ °F Ambient

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
VAPOR PRESSURE: ____ LBS. REID (OR) 0.02 LBS. PER SQ. IN. ABSOLUTE AT 90 °F
INITIAL BOILING POINT: ____ °F
FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: ____ °F

18. OPERATIONAL DATA:
MAXIMUM FILLING RATE: ____ BARRELS PER HOUR (OR) ____ GALLONS PER HOUR
AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) 2 FT
AVERAGE THROUGHPUT: ____ BARRELS PER DAY (OR) ____ GALLONS PER DAY
TANK TURNOVERS PER YEAR: 20

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
NAME OF SOLVENT: ____ NAME OF MATERIAL DISSOLVED: ____
CONCENTRATION OF MATERIAL DISSOLVED: ____ % BY WEIGHT (OR) ____ % BY VOLUME (OR ____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
IDENTIFY THE MATERIAL: ____
PRESSURE AT WHICH MATERIAL IS STORED: ____ LBS. PER SQ. IN. GAGE AT ____ °F

FORM PI-2 (7-79)

TABLE 7

STORAGE TANK SUMMARY

APR [illegible] 1982

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING & CONSTRUCTION, INC.

2. TANK LOCATION: FREEPORT, TEXAS

3. TANK IDENTIFICATION (NUMBER OR NAME): T-2 Main Diesel Oil Storage Tank

4. TANK CAPACITY: BARRELS ____ GALLONS 19,140

5. TANK DIMENSIONS: DIAMETER 10'7" HEIGHT 29'0" LENGTH ____ WIDTH ____

6. TANK SHAPE: CYLINDRICAL [X] SPHERICAL [ ] OTHER SHAPE [ ] DESCRIBE ____

7. TANK MATERIALS OF CONSTRUCTION: STEEL [X] WOOD [ ] OTHER [ ] SPECIFY ____

8. TANK PAINT: CHALKING WHITE [ ] LIGHT GREY OR BLUE [X] ALUMINUM [ ] DARK COLOR OR NO PAINT [ ]

9. TANK CONDITION: GOOD [ ] FAIR [X] POOR [ ]

10. TANK STATUS: NEW CONSTRUCTION [ ] ALTERATION [ ] Existing

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF [X] PRESSURE [ ] INTERNALLY HEATED [ ] UNDERGROUND [ ] FLOATING ROOF [ ] OPEN TOP [ ] INSULATED [ ] OTHER [ ]

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
TYPE OF ROOF: DOUBLE DECK [ ] PONTOON [ ] OTHER [ ] DESCRIBE ____
TYPE OF SEAL: SINGLE [ ] DOUBLE [ ] OTHER [ ] DESCRIBE ____
TYPE OF SHELL CONSTRUCTION: RIVETED [ ] WELDED [ ] OTHER [ ] DESCRIBE ____

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

	Number	Pressure Setting	Vacuum Setting	Discharging To: (Check) Atmosphere	Vapor Control	Flare
Combination						
Pressure						
Vacuum						
Open	1			X		

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK: Diesel Oil
DENSITY: ____ LBS/GAL. (OR) 40 °A.P.I.

16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK:
MINIMUM TEMPERATURE ____ °F MAXIMUM TEMPERATURE ____ °F Ambient

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
VAPOR PRESSURE: ____ LBS. REID (OR) 0.02 LBS. PER SQ. IN. ABSOLUTE AT 90 °F
INITIAL BOILING POINT: ____ °F
FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: ____ °F

18. OPERATIONAL DATA:
MAXIMUM FILLING RATE: ____ BARRELS PER HOUR (OR) ____ GALLONS PER HOUR
AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) 5 FT
AVERAGE THROUGHPUT: ____ BARRELS PER DAY (OR) ____ GALLONS PER DAY
TANK TURNOVERS PER YEAR: 2

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
NAME OF SOLVENT: ____ NAME OF MATERIAL DISSOLVED: ____
CONCENTRATION OF MATERIAL DISSOLVED: ____ % BY WEIGHT (OR) ____ % BY VOLUME (OR ____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
IDENTIFY THE MATERIAL: ____
PRESSURE AT WHICH MATERIAL IS STORED: ____ LBS. PER SQ. IN. GAGE AT ____ °F

TABLE 7

STORAGE TANK SUMMARY

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING & CONSTRUCTION, INC.

2. TANK LOCATION: FREEPORT, TEXAS

3. TANK IDENTIFICATION (NUMBER OR NAME): T-3 Fresh Water Tank

4. TANK CAPACITY: BARRELS _____ GALLONS 22,400

5. TANK DIMENSIONS: DIAMETER 15'3½" HEIGHT 16'0" LENGTH _____ WIDTH _____

6. TANK SHAPE: CYLINDRICAL [X] SPHERICAL [ ] OTHER SHAPE [ ] DESCRIBE _____

7. TANK MATERIALS OF CONSTRUCTION: STEEL [X] WOOD [ ] OTHER [ ] SPECIFY _____

8. TANK PAINT: CHALKING WHITE [ ] LIGHT GREY OR BLUE [X] ALUMINUM [ ] DARK COLOR OR NO PAINT [ ]

9. TANK CONDITION: GOOD [ ] FAIR [X] POOR [ ]

10. TANK STATUS: NEW CONSTRUCTION [ ] ALTERATION [ ] Existing

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF [X] PRESSURE [ ] INTERNALLY HEATED [ ] UNDERGROUND [ ]
FLOATING ROOF [ ] OPEN TOP [ ] INSULATED [ ] OTHER [ ]

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
TYPE OF ROOF: DOUBLE DECK [ ] PONTOON [ ] OTHER [ ] DESCRIBE _____
TYPE OF SEAL: SINGLE [ ] DOUBLE [ ] OTHER [ ] DESCRIBE _____
TYPE OF SHELL CONSTRUCTION: RIVETED [ ] WELDED [ ] OTHER [ ] DESCRIBE _____

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

	Number	Pressure Setting	Vacuum Setting	Discharging To: (Check) Atmosphere	Vapor Control	Flare
Combination						
Pressure						
Vacuum						
Open	1			X		

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK: Water
DENSITY: 8.34 LBS/GAL. (OR) _____ °A.P.I.

16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK:
MINIMUM TEMPERATURE ____ °F MAXIMUM TEMPERATURE ____ °F Ambient

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
VAPOR PRESSURE: _____ LBS. REID (OR) _____ LBS. PER SQ. IN. ABSOLUTE AT _____ °F
INITIAL BOILING POINT: _____ °F
FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: _____ °F

18. OPERATIONAL DATA:
MAXIMUM FILLING RATE: _____ BARRELS PER HOUR (OR) _____ GALLONS PER HOUR
AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) _____ FT
AVERAGE THROUGHPUT: _____ BARRELS PER DAY (OR) _____ GALLONS PER DAY
TANK TURNOVERS PER YEAR: _____

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
NAME OF SOLVENT: _____ NAME OF MATERIAL DISSOLVED: _____
CONCENTRATION OF MATERIAL DISSOLVED: _____ % BY WEIGHT (OR) _____ % BY VOLUME (OR _____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
IDENTIFY THE MATERIAL: _____
PRESSURE AT WHICH MATERIAL IS STORED: _____ LBS. PER SQ. IN. GAGE AT _____ °F

TABLE 7

STORAGE TANK SUMMARY

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING & CONSTRUCTION, INC.

2. TANK LOCATION: FREEPORT, TEXAS

3. TANK IDENTIFICATION (NUMBER OR NAME): T-4 Wash Water Vacuum Tank

4. TANK CAPACITY: BARRELS _____ GALLONS 11,770

5. TANK DIMENSIONS: DIAMETER 7'0" HEIGHT _____ LENGTH 36'0" WIDTH _____

6. TANK SHAPE: CYLINDRICAL [X] SPHERICAL [ ] OTHER SHAPE [ ] DESCRIBE _____

7. TANK MATERIALS OF CONSTRUCTION: STEEL [X] WOOD [ ] OTHER [ ] SPECIFY _____

8. TANK PAINT: CHALKING WHITE [ ] LIGHT GREY OR WHITE [X] ALUMINUM [ ] DARK COLOR OR NO PAINT [ ]

9. TANK CONDITION: GOOD [ ] FAIR [X] POOR [ ]

10. TANK STATUS: NEW CONSTRUCTION [ ] ALTERATION [ ] Existing

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF [ ] PRESSURE [ ] INTERNALLY HEATED [ ] UNDERGROUND [ ]
FLOATING ROOF [ ] OPEN TOP [ ] INSULATED [X] OTHER [ ]

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
TYPE OF ROOF: DOUBLE DECK [ ] PONTOON [ ] OTHER [ ] DESCRIBE _____
TYPE OF SEAL: SINGLE [ ] DOUBLE [ ] OTHER [ ] DESCRIBE _____
TYPE OF SHELL CONSTRUCTION: RIVETED [ ] WELDED [ ] OTHER [ ] DESCRIBE _____

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

None

	Number	Pressure Setting	Vacuum Setting	Discharging To: (Check) Atmosphere	Vapor Control	Flare
Combination						
Pressure						
Vacuum						
Open						

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK:
Water
DENSITY: 8.34 LBS/GAL. (OR) _____ °A.P.I.

16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK:
MINIMUM TEMPERATURE ____ °F MAXIMUM TEMPERATURE ____ °F Ambient

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
VAPOR PRESSURE: _____ LBS. REID (OR) _____ LBS. PER SQ. IN. ABSOLUTE AT _____ °F
INITIAL BOILING POINT: _____ °F
FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: _____ °F

18. OPERATIONAL DATA:
MAXIMUM FILLING RATE: _____ BARRELS PER HOUR (OR) _____ GALLONS PER HOUR
AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) _____ FT
AVERAGE THROUGHPUT: _____ BARRELS PER DAY (OR) _____ GALLONS PER DAY
TANK TURNOVERS PER YEAR: _____

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
NAME OF SOLVENT: _____ NAME OF MATERIAL DISSOLVED: _____
CONCENTRATION OF MATERIAL DISSOLVED: _____ % BY WEIGHT (OR) _____ % BY VOLUME (OR _____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
IDENTIFY THE MATERIAL: _____
PRESSURE AT WHICH MATERIAL IS STORED: _____ LBS. PER SQ. IN. GAGE AT _____ °F

TABLE 7

STORAGE TANK SUMMARY

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING & CONSTRUCTION, INC.

2. TANK LOCATION: FREEPORT, TEXAS

3. TANK IDENTIFICATION (NUMBER OR NAME): T-5 Solids Knockout Pot

4. TANK CAPACITY: BARRELS _____ GALLONS 1,000

5. TANK DIMENSIONS: DIAMETER 5'0" HEIGHT _____ LENGTH 6'8" WIDTH _____

6. TANK SHAPE: CYLINDRICAL [X] SPHERICAL [ ] OTHER SHAPE [ ] DESCRIBE _____

7. TANK MATERIALS OF CONSTRUCTION: STEEL [X] WOOD [ ] OTHER [ ] SPECIFY _____

8. TANK PAINT: CHALKING WHITE [ ] YELLOW [ ] ALUMINUM [ ] DARK COLOR OR NO PAINT [ ]

9. TANK CONDITION: GOOD [X] FAIR [ ] POOR [ ]

10. TANK STATUS: NEW CONSTRUCTION [ ] ALTERATION [ ] Existing

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF [ ] PRESSURE [X] INTERNALLY HEATED [ ] UNDERGROUND [ ]
FLOATING ROOF [ ] OPEN TOP [ ] INSULATED [ ] OTHER [ ]

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
TYPE OF ROOF: DOUBLE DECK [ ] PONTOON [ ] OTHER [ ] DESCRIBE _____
TYPE OF SEAL: SINGLE [ ] DOUBLE [ ] OTHER [ ] DESCRIBE _____
TYPE OF SHELL CONSTRUCTION: RIVETED [ ] WELDED [ ] OTHER [ ] DESCRIBE _____

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

None

	Number	Pressure Setting	Vacuum Setting	Discharging To: (Check) Atmosphere	Vapor Control	Flare
Combination						
Pressure						
Vacuum						
Open						

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK: Water
DENSITY: _____ LBS/GAL. (OR) _____ °A.P.I.

16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK:
MINIMUM TEMPERATURE _____ °F MAXIMUM TEMPERATURE _____ °F Ambient

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
VAPOR PRESSURE: _____ LBS. REID (OR) _____ LBS. PER SQ. IN. ABSOLUTE AT _____ °F
INITIAL BOILING POINT: _____ °F
FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: _____ °F

18. OPERATIONAL DATA:
MAXIMUM FILLING RATE: _____ BARRELS PER HOUR (OR) _____ GALLONS PER HOUR
AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) _____ FT
AVERAGE THROUGHPUT: _____ BARRELS PER DAY (OR) _____ GALLONS PER DAY
TANK TURNOVERS PER YEAR: _____

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
NAME OF SOLVENT: _____ NAME OF MATERIAL DISSOLVED: _____
CONCENTRATION OF MATERIAL DISSOLVED: _____ % BY WEIGHT (OR) _____ % BY VOLUME (OR _____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
IDENTIFY THE MATERIAL: _____
PRESSURE AT WHICH MATERIAL IS STORED: _____ LBS. PER SQ. IN. GAGE AT _____ °F

TABLE 7

STORAGE TANK SUMMARY

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING & CONSTRUCTION, INC.

2. TANK LOCATION: FREEPORT, TEXAS

3. TANK IDENTIFICATION (NUMBER OR NAME): T-6 Water Recycle Tank

4. TANK CAPACITY: BARRELS ____ GALLONS 19,323

5. TANK DIMENSIONS: DIAMETER 10'6" HEIGHT ____ LENGTH 29'6" WIDTH ____

6. TANK SHAPE: CYLINDRICAL [X] SPHERICAL [ ] OTHER SHAPE [ ] DESCRIBE ____

7. TANK MATERIALS OF CONSTRUCTION: STEEL [X] WOOD [ ] OTHER [ ] SPECIFY ____

8. TANK PAINT: CHALKING WHITE [ ] LIGHT GREY [X] ALUMINUM [ ] DARK COLOR OR NO PAINT [ ]

9. TANK CONDITION: GOOD [ ] FAIR [X] POOR [ ]

10. TANK STATUS: NEW CONSTRUCTION [ ] ALTERATION [ ] Existing

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF [X] PRESSURE [ ] INTERNALLY HEATED [ ] UNDERGROUND [ ]
FLOATING ROOF [ ] OPEN TOP [ ] INSULATED [ ] OTHER [ ]

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
TYPE OF ROOF: DOUBLE DECK [ ] PONTOON [ ] OTHER [ ] DESCRIBE ____
TYPE OF SEAL: SINGLE [ ] DOUBLE [ ] OTHER [ ] DESCRIBE ____
TYPE OF SHELL CONSTRUCTION: RIVETED [ ] WELDED [ ] OTHER [ ] DESCRIBE ____

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

	NUMBER	PRESSURE SETTING	VACUUM SETTING	DISCHARGING TO: (CHECK) ATMOSPHERE	VAPOR CONTROL	FLARE
COMBINATION						
PRESSURE						
VACUUM						
OPEN	1			X		

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK: Wash Water DENSITY: 8.34 LBS/GAL. (OR) ____ °A.P.I.

16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK:
MINIMUM TEMPERATURE ____ °F MAXIMUM TEMPERATURE ____ °F Ambient

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
VAPOR PRESSURE: ____ LBS. REID (OR) ____ LBS. PER SQ. IN. ABSOLUTE AT ____ °F
INITIAL BOILING POINT: ____ °F
FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: ____ °F

18. OPERATIONAL DATA:
MAXIMUM FILLING RATE: ____ BARRELS PER HOUR (OR) 3300 GALLONS PER HOUR
AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) 2 FT
AVERAGE THROUGHPUT: ____ BARRELS PER DAY (OR) ____ GALLONS PER DAY
TANK TURNOVERS PER YEAR: 20

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
NAME OF SOLVENT: Water NAME OF MATERIAL DISSOLVED: Hydrocarbons, Chemicals
CONCENTRATION OF MATERIAL DISSOLVED: 0.1 % BY WEIGHT (OR) ____ % BY VOLUME (OR ____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
IDENTIFY THE MATERIAL: ____
PRESSURE AT WHICH MATERIAL IS STORED: ____ LBS. PER SQ. IN. GAGE AT ____ °F

TABLE 7

STORAGE TANK SUMMARY

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING & CONSTRUCTION, INC.

2. TANK LOCATION: FREEPORT, TEXAS

3. TANK IDENTIFICATION (NUMBER OR NAME): T-7 Stripped Oil Settling Tank

4. TANK CAPACITY: ____ BARRELS GALLONS 32,092

5. TANK DIMENSIONS: DIAMETER ____ HEIGHT 9'5" LENGTH 40'0" WIDTH 11'10"

6. TANK SHAPE: CYLINDRICAL ☐ SPHERICAL ☐ OTHER SHAPE ☒ DESCRIBE RECTANGULAR

7. TANK MATERIALS OF CONSTRUCTION: STEEL ☒ WOOD ☐ OTHER ☐ SPECIFY ____

8. TANK PAINT: CHALKING WHITE ☐ LIGHT GREY XXXXX ☒ ALUMINUM ☐ DARK COLOR OR NO PAINT ☐

9. TANK CONDITION: GOOD ☐ FAIR ☒ POOR ☐

10. TANK STATUS: NEW CONSTRUCTION ☐ ALTERATION ☐ Existing

11. TYPE OF TANK: FIXED ROOF ☒ PRESSURE ☐ INTERNALLY HEATED ☐ UNDERGROUND ☐
(CHECK ALL APPLICABLE) FLOATING ROOF ☐ OPEN TOP ☐ INSULATED ☐ OTHER ☐

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
TYPE OF ROOF: DOUBLE DECK ☐ PONTOON ☐ OTHER ☐ DESCRIBE ____
TYPE OF SEAL: SINGLE ☐ DOUBLE ☐ OTHER ☐ DESCRIBE ____
TYPE OF SHELL CONSTRUCTION: RIVETED ☐ WELDED ☐ OTHER ☐ DESCRIBE ____

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

	Number	Pressure Setting	Vacuum Setting	Discharging to: (Check) Atmosphere	Vapor Control	Flare
Combination	1	1.0 PSI	0.5 PSI	X		
Pressure						
Vacuum						
Open						

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK:
Water, Hydrocarbons DENSITY: ____ LBS/GAL. (OR) ____ °A.P.I.

16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK:
MINIMUM TEMPERATURE ____ °F MAXIMUM TEMPERATURE ____ °F Ambient

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
VAPOR PRESSURE: ____ LBS. REID (OR) ____ LBS. PER SQ. IN. ABSOLUTE AT ____ °F
INITIAL BOILING POINT: ____ °F
FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: ____ °F

18. OPERATIONAL DATA:
MAXIMUM FILLING RATE: ____ BARRELS PER HOUR (OR) 3300 GALLONS PER HOUR
AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) 5 FT
AVERAGE THROUGHPUT: ____ BARRELS PER DAY (OR) ____ GALLONS PER DAY
TANK TURNOVERS PER YEAR: 2

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
NAME OF SOLVENT: ____ NAME OF MATERIAL DISSOLVED: ____
CONCENTRATION OF MATERIAL DISSOLVED: ____ % BY WEIGHT (OR) ____ % BY VOLUME (OR ____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
IDENTIFY THE MATERIAL: ____
PRESSURE AT WHICH MATERIAL IS STORED: ____ LBS. PER SQ. IN. GAGE AT ____ °F

TABLE 7

STORAGE TANK SUMMARY

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING & CONSTRUCTION, INC.

2. TANK LOCATION: FREEPORT, TEXAS

3. TANK IDENTIFICATION (NUMBER OR NAME): T-12 Product Storage Tank

4. TANK CAPACITY: BARRELS ____ GALLONS 5,845

5. TANK DIMENSIONS: DIAMETER 5'3" HEIGHT ____ LENGTH 36'1" WIDTH ____

6. TANK SHAPE: CYLINDRICAL [X] SPHERICAL [ ] OTHER SHAPE [ ] DESCRIBE ____

7. TANK MATERIALS OF CONSTRUCTION: STEEL [X] WOOD [ ] OTHER [ ] SPECIFY ____

8. TANK PAINT: CHALKING WHITE [ ] LIGHT GREY [X] ALUMINUM [ ] DARK COLOR OR NO PAINT [ ]

9. TANK CONDITION: GOOD [ ] FAIR [X] POOR [ ]

10. TANK STATUS: NEW CONSTRUCTION [ ] ALTERATION [ ] Existing

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF [X] PRESSURE [ ] INTERNALLY HEATED [ ] UNDERGROUND [ ]
FLOATING ROOF [ ] OPEN TOP [ ] INSULATED [ ] OTHER [ ]

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
TYPE OF ROOF: DOUBLE DECK [ ] PONTOON [ ] OTHER [ ] DESCRIBE ____
TYPE OF SEAL: SINGLE [ ] DOUBLE [ ] OTHER [ ] DESCRIBE ____
TYPE OF SHELL CONSTRUCTION: RIVETED [ ] WELDED [ ] OTHER [ ] DESCRIBE ____

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

	NUMBER	PRESSURE SETTING	VACUUM SETTING	DISCHARGING TO: (CHECK) ATMOSPHERE	VAPOR CONTROL	FLARE
COMBINATION						
PRESSURE						
VACUUM						
OPEN	1			X		

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK: Hydrocarbons, Chemicals
DENSITY: ____ LBS/GAL. (OR) ____ °A.P.I.

16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK:
MINIMUM TEMPERATURE ____ °F MAXIMUM TEMPERATURE ____ °F Ambient

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
VAPOR PRESSURE: ____ LBS. REID (OR) 2.7 LBS. PER SQ. IN. ABSOLUTE AT 90 °F
INITIAL BOILING POINT: ____ °F Methylethyl Ketone
FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: ____ °F

18. OPERATIONAL DATA:
MAXIMUM FILLING RATE: ____ BARRELS PER HOUR (OR) 55 GALLONS PER HOUR
AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) ____ FT
AVERAGE THROUGHPUT: ____ BARRELS PER DAY (OR) ____ GALLONS PER DAY
TANK TURNOVERS PER YEAR: 5

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
NAME OF SOLVENT: ____ NAME OF MATERIAL DISSOLVED: ____
CONCENTRATION OF MATERIAL DISSOLVED: ____ % BY WEIGHT (OR) ____ % BY VOLUME (OR ____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
IDENTIFY THE MATERIAL: ____
PRESSURE AT WHICH MATERIAL IS STORED: ____ LBS. PER SQ. IN. GAGE AT ____ °F

FORM PI-2 (72-9)

TABLE 7

STORAGE TANK SUMMARY

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING & CONSTRUCTION, INC.

2. TANK LOCATION: FREEPORT, TEXAS

3. TANK IDENTIFICATION (NUMBER OR NAME): T-13 Wash Water Vacuum Tank

4. TANK CAPACITY: BARRELS _____ GALLONS 900

5. TANK DIMENSIONS: DIAMETER 3'0" HEIGHT _____ LENGTH 17'0" WIDTH _____

6. TANK SHAPE: CYLINDRICAL [X] SPHERICAL [ ] OTHER SHAPE [ ] DESCRIBE _____

7. TANK MATERIALS OF CONSTRUCTION: STEEL [X] WOOD [ ] OTHER [ ] SPECIFY _____

8. TANK PAINT: CHALKING WHITE [ ] LIGHT GREY ~~OR BLUE~~ [X] ALUMINUM [ ] DARK COLOR OR NO PAINT [ ]

9. TANK CONDITION: GOOD [X] FAIR [ ] POOR [ ]

10. TANK STATUS: NEW CONSTRUCTION [X] ALTERATION [ ]

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF [X] PRESSURE [X] INTERNALLY HEATED [ ] UNDERGROUND [ ]
FLOATING ROOF [ ] OPEN TOP [ ] INSULATED [ ] OTHER [ ]

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
TYPE OF ROOF: DOUBLE DECK [ ] PONTOON [ ] OTHER [ ] DESCRIBE _____
TYPE OF SEAL: SINGLE [ ] DOUBLE [ ] OTHER [ ] DESCRIBE _____
TYPE OF SHELL CONSTRUCTION: RIVETED [ ] WELDED [ ] OTHER [ ] DESCRIBE _____

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

None

	Number	Pressure Setting	Vacuum Setting	Discharging To: (Check) Atmosphere	Vapor Control	Flare
Combination						
Pressure						
Vacuum						
Open						

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK: Water DENSITY: 8.34 LBS/GAL. (OR) _____ °A.P.I.

16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK:
MINIMUM TEMPERATURE _____ °F MAXIMUM TEMPERATURE _____ °F

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
VAPOR PRESSURE: _____ LBS. REID (OR) _____ LBS. PER SQ. IN. ABSOLUTE AT _____ °F
INITIAL BOILING POINT: _____ °F
FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: _____ °F

18. OPERATIONAL DATA:
MAXIMUM FILLING RATE: _____ BARRELS PER HOUR (OR) _____ GALLONS PER HOUR
AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) _____ FT
AVERAGE THROUGHPUT: _____ BARRELS PER DAY (OR) _____ GALLONS PER DAY
TANK TURNOVERS PER YEAR: _____

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
NAME OF SOLVENT: _____ NAME OF MATERIAL DISSOLVED: _____
CONCENTRATION OF MATERIAL DISSOLVED: _____ % BY WEIGHT (OR) _____ % BY VOLUME (OR _____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
IDENTIFY THE MATERIAL: _____
PRESSURE AT WHICH MATERIAL IS STORED: _____ LBS. PER SQ. IN. GAGE AT _____ °F

FORM PI-2 (72-9)

TABLE 7

STORAGE TANK SUMMARY

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING & CONSTRUCTION, INC.

2. TANK LOCATION: FREEPORT, TEXAS

3. TANK IDENTIFICATION (NUMBER OR NAME): T-14 Wash Water Vacuum Tank

4. TANK CAPACITY: BARRELS _____ GALLONS 6000

5. TANK DIMENSIONS: DIAMETER 7'0" HEIGHT _____ LENGTH 20'0" WIDTH _____

6. TANK SHAPE: CYLINDRICAL [X] SPHERICAL [ ] OTHER SHAPE [ ] DESCRIBE _____

7. TANK MATERIALS OF CONSTRUCTION: STEEL [X] WOOD [ ] OTHER [ ] SPECIFY _____

8. TANK PAINT: CHALKING WHITE [ ] LIGHT GREY OR BLUE [X] ALUMINUM [ ] DARK COLOR OR NO PAINT [ ]

9. TANK CONDITION: GOOD [X] FAIR [ ] POOR [ ]

10. TANK STATUS: NEW CONSTRUCTION [X] ALTERATION [ ]

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF [ ] PRESSURE [X] INTERNALLY HEATED [ ] UNDERGROUND [ ]
FLOATING ROOF [ ] OPEN TOP [ ] INSULATED [ ] OTHER [ ]

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
TYPE OF ROOF: DOUBLE DECK [ ] PONTOON [ ] OTHER [ ] DESCRIBE _____
TYPE OF SEAL: SINGLE [ ] DOUBLE [ ] OTHER [ ] DESCRIBE _____
TYPE OF SHELL CONSTRUCTION: RIVETED [ ] WELDED [ ] OTHER [ ] DESCRIBE _____

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

None

	NUMBER	PRESSURE SETTING	VACUUM SETTING	DISCHARGING TO: (CHECK) ATMOSPHERE	VAPOR CONTROL	FLARE
COMBINATION						
PRESSURE						
VACUUM						
OPEN						

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK:
Water DENSITY: 8.34 LBS/GAL. (OR) _____ °A.P.I.

16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK:
MINIMUM TEMPERATURE _____ °F MAXIMUM TEMPERATURE _____ °F

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
VAPOR PRESSURE: _____ LBS. REID (OR) _____ LBS. PER SQ. IN. ABSOLUTE AT _____ °F
INITIAL BOILING POINT: _____ °F
FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: _____ °F

18. OPERATIONAL DATA:
MAXIMUM FILLING RATE: _____ BARRELS PER HOUR (OR) _____ GALLONS PER HOUR
AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) _____ FT
AVERAGE THROUGHPUT: _____ BARRELS PER DAY (OR) _____ GALLONS PER DAY
TANK TURNOVERS PER YEAR: _____

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
NAME OF SOLVENT: _____ NAME OF MATERIAL DISSOLVED: _____
CONCENTRATION OF MATERIAL DISSOLVED: _____ % BY WEIGHT (OR) _____ % BY VOLUME (OR _____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
IDENTIFY THE MATERIAL: _____
PRESSURE AT WHICH MATERIAL IS STORED: _____ LBS. PER SQ. IN. GAGE AT _____ °F

FORM PI-2 (72-9)

TABLE 7

STORAGE TANK SUMMARY

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING & CONSTRUCTION, INC

2. TANK LOCATION: FREEPORT, TEXAS

3. TANK IDENTIFICATION (NUMBER OR NAME): T-15 Slop Oil Tank

4. TANK CAPACITY: 150 BARRELS GALLONS

5. TANK DIMENSIONS: DIAMETER 12'0" HEIGHT 8'0" LENGTH ____ WIDTH ____

6. TANK SHAPE: CYLINDRICAL [X] SPHERICAL [ ] OTHER SHAPE [ ] DESCRIBE ____

7. TANK MATERIALS OF CONSTRUCTION: STEEL [X] WOOD [ ] OTHER [ ] SPECIFY ____

8. TANK PAINT: CHALKING WHITE [ ] LIGHT GREY [X] ALUMINUM [ ] DARK COLOR OR NO PAINT [ ]

9. TANK CONDITION: GOOD [X] FAIR [ ] POOR [ ]

10. TANK STATUS: NEW CONSTRUCTION [X] ALTERATION [ ]

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF [X] PRESSURE [ ] INTERNALLY HEATED [ ] UNDERGROUND [ ]
FLOATING ROOF [ ] OPEN TOP [ ] INSULATED [ ] OTHER [ ]

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
TYPE OF ROOF: DOUBLE DECK [ ] PONTOON [ ] OTHER [ ] DESCRIBE ____
TYPE OF SEAL: SINGLE [ ] DOUBLE [ ] OTHER [ ] DESCRIBE ____
TYPE OF SHELL CONSTRUCTION: RIVETED [ ] WELDED [ ] OTHER [ ] DESCRIBE ____

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

	Number	Pressure Setting	Vacuum Setting	Discharging to: (Check) Atmosphere	Vapor Control	Flare
Combination						
Pressure						
Vacuum						
Open	1			X		

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK: Hydrocarbons
DENSITY: ____ LBS/GAL. (OR) ____ °A.P.I.

16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK:
MINIMUM TEMPERATURE ____ °F MAXIMUM TEMPERATURE ____ °F Ambient

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
VAPOR PRESSURE: ____ LBS. REID (OR) ____ LBS. PER SQ. IN. ABSOLUTE AT ____ °F
INITIAL BOILING POINT: ____ °F
FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: ____ °F

18. OPERATIONAL DATA:
MAXIMUM FILLING RATE: ____ BARRELS PER HOUR (OR) ____ GALLONS PER HOUR
AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) 4 FT
AVERAGE THROUGHPUT: ____ BARRELS PER DAY (OR) ____ GALLONS PER DAY
TANK TURNOVERS PER YEAR: 52

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
NAME OF SOLVENT: ____ NAME OF MATERIAL DISSOLVED: ____
CONCENTRATION OF MATERIAL DISSOLVED: ____ % BY WEIGHT (OR) ____ % BY VOLUME (OR ____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
IDENTIFY THE MATERIAL: ____
PRESSURE AT WHICH MATERIAL IS STORED: ____ LBS. PER SQ. IN. GAGE AT ____ °F

FORM PI-2 (72-9)

TABLE 7

STORAGE TANK SUMMARY

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING & CONSTRUCTION, INC.

2. TANK LOCATION: FREEPORT, TEXAS

3. TANK IDENTIFICATION (NUMBER OR NAME): T-8 Gasoline Storage Tank

4. TANK CAPACITY: BARRELS ____ GALLONS 3,117

5. TANK DIMENSIONS: DIAMETER 5'4" HEIGHT ____ LENGTH 18'4" WIDTH ____

6. TANK SHAPE: CYLINDRICAL [X] SPHERICAL [ ] OTHER SHAPE [ ] DESCRIBE ____

7. TANK MATERIALS OF CONSTRUCTION: STEEL [X] WOOD [ ] OTHER [ ] SPECIFY ____

8. TANK PAINT: CHALKING WHITE [ ] LIGHT GREY OR ALUMINUM [X] ALUMINUM [ ] DARK COLOR OR NO PAINT [ ]

9. TANK CONDITION: GOOD [ ] FAIR [X] POOR [ ]

10. TANK STATUS: NEW CONSTRUCTION [ ] ALTERATION [ ] Existing

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF [X] PRESSURE [ ] INTERNALLY HEATED [ ] UNDERGROUND [ ]
FLOATING ROOF [ ] OPEN TOP [ ] INSULATED [ ] OTHER [ ]

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
TYPE OF ROOF: DOUBLE DECK [ ] PONTOON [ ] OTHER [ ] DESCRIBE ____
TYPE OF SEAL: SINGLE [ ] DOUBLE [ ] OTHER [ ] DESCRIBE ____
TYPE OF SHELL CONSTRUCTION: RIVETED [ ] WELDED [ ] OTHER [ ] DESCRIBE ____

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

	Number	Pressure Setting	Vacuum Setting	Discharging To: (Check) Atmosphere	Vapor Control	Flare
Combination						
Pressure						
Vacuum						
Open	1			X		

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK: Gasoline
DENSITY: ____ LBS/GAL. (OR) ____ °A.P.I.

16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK:
MINIMUM TEMPERATURE ____ °F MAXIMUM TEMPERATURE ____ °F Ambient

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
VAPOR PRESSURE: 10.0 LBS. REID (OR) ____ LBS. PER SQ. IN. ABSOLUTE AT 90 °F
INITIAL BOILING POINT: ____ °F
FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: ____ °F

18. OPERATIONAL DATA:
MAXIMUM FILLING RATE: ____ BARRELS PER HOUR (OR) 3300 GALLONS PER HOUR
AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) 3 FT
AVERAGE THROUGHPUT: ____ BARRELS PER DAY (OR) ____ GALLONS PER DAY
TANK TURNOVERS PER YEAR: 4

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
NAME OF SOLVENT: ____ NAME OF MATERIAL DISSOLVED: ____
CONCENTRATION OF MATERIAL DISSOLVED: ____ % BY WEIGHT (OR) ____ % BY VOLUME (OR ____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
IDENTIFY THE MATERIAL: ____
PRESSURE AT WHICH MATERIAL IS STORED: ____ LBS. PER SQ. IN. GAGE AT ____ °F

FORM PI-2 (72-9)

TABLE 7

STORAGE TANK SUMMARY

APR 1992

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING & CONSTRUCTION, INC.

2. TANK LOCATION: FREEPORT, TEXAS

3. TANK IDENTIFICATION (NUMBER OR NAME): T-10 Product Storage Tank

4. TANK CAPACITY: BARRELS ____ GALLONS 5,520

5. TANK DIMENSIONS: DIAMETER 5'3" HEIGHT ____ LENGTH 34'6" WIDTH ____

6. TANK SHAPE: CYLINDRICAL [X] SPHERICAL [ ] OTHER SHAPE [ ] DESCRIBE ____

7. TANK MATERIALS OF CONSTRUCTION: STEEL [X] WOOD [ ] OTHER [ ] SPECIFY ____

8. TANK PAINT: CHALKING WHITE [ ] LIGHT GREY [X] ALUMINUM [ ] DARK COLOR OR NO PAINT [ ]

9. TANK CONDITION: GOOD [ ] FAIR [X] POOR [ ]

10. TANK STATUS: NEW CONSTRUCTION [ ] ALTERATION [ ] Existing

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF [X] PRESSURE [ ] INTERNALLY HEATED [ ] UNDERGROUND [ ]
FLOATING ROOF [ ] OPEN TOP [ ] INSULATED [ ] OTHER [ ]

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
TYPE OF ROOF: DOUBLE DECK [ ] PONTOON [ ] OTHER [ ] DESCRIBE ____
TYPE OF SEAL: SINGLE [ ] DOUBLE [ ] OTHER [ ] DESCRIBE ____
TYPE OF SHELL CONSTRUCTION: RIVETED [ ] WELDED [ ] OTHER [ ] DESCRIBE ____

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

	NUMBER	PRESSURE SETTING	VACUUM SETTING	DISCHARGING TO: (CHECK) ATMOSPHERE	VAPOR CONTROL	FLARE
COMBINATION						
PRESSURE						
VACUUM						
OPEN	1			X		

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK: Hydrocarbons, Chemicals
DENSITY: ____ LBS/GAL. (OR) ____ °A.P.I.

16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK:
MINIMUM TEMPERATURE ____ °F MAXIMUM TEMPERATURE ____ °F Ambient

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
VAPOR PRESSURE: ____ LBS. REID (OR) 2.5 LBS. PER SQ. IN. ABSOLUTE AT 90 °F
INITIAL BOILING POINT: ____ °F Methylethyl Ketone
FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: ____ °F

18. OPERATIONAL DATA:
MAXIMUM FILLING RATE: ____ BARRELS PER HOUR (OR) 55 GALLONS PER HOUR
AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) 4 FT
AVERAGE THROUGHPUT: ____ BARRELS PER DAY (OR) ____ GALLONS PER DAY
TANK TURNOVERS PER YEAR: 5

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
NAME OF SOLVENT: ____ NAME OF MATERIAL DISSOLVED: ____
CONCENTRATION OF MATERIAL DISSOLVED: ____ % BY WEIGHT (OR) ____ % BY VOLUME (OR ____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
IDENTIFY THE MATERIAL: ____
PRESSURE AT WHICH MATERIAL IS STORED: ____ LBS. PER SQ. IN. GAGE AT ____ °F

FORM PI-2 (72-9)

TABLE 7

STORAGE TANK SUMMARY

APR 19 1982

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING & CONSTRUCTION, INC.

2. TANK LOCATION: FREEPORT, TEXAS

3. TANK IDENTIFICATION (NUMBER OR NAME): T-11 Product Storage Tank

4. TANK CAPACITY: BARRELS _____ GALLONS 5,933

5. TANK DIMENSIONS: DIAMETER 5'5" HEIGHT _____ LENGTH 33'4" WIDTH _____

6. TANK SHAPE: CYLINDRICAL [X] SPHERICAL [ ] OTHER SHAPE [ ] DESCRIBE _____

7. TANK MATERIALS OF CONSTRUCTION: STEEL [X] WOOD [ ] OTHER [ ] SPECIFY _____

8. TANK PAINT: CHALKING WHITE [ ] LIGHT GREY [X] ALUMINUM [ ] DARK COLOR OR NO PAINT [ ]

9. TANK CONDITION: GOOD [ ] FAIR [X] POOR [ ]

10. TANK STATUS: NEW CONSTRUCTION [ ] ALTERATION [ ] Existing

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF [X] PRESSURE [ ] INTERNALLY HEATED [ ] UNDERGROUND [ ]
FLOATING ROOF [ ] OPEN TOP [ ] INSULATED [ ] OTHER [ ]

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
TYPE OF ROOF: DOUBLE DECK [ ] PONTOON [ ] OTHER [ ] DESCRIBE _____
TYPE OF SEAL: SINGLE [ ] DOUBLE [ ] OTHER [ ] DESCRIBE _____
TYPE OF SHELL CONSTRUCTION: RIVETED [ ] WELDED [ ] OTHER [ ] DESCRIBE _____

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

	NUMBER	PRESSURE SETTING	VACUUM SETTING	DISCHARGING TO: (CHECK) ATMOSPHERE	VAPOR CONTROL	FLARE
COMBINATION						
PRESSURE						
VACUUM						
OPEN	1			X		

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK: Hydrocarbons, Chemicals
DENSITY: _____ LBS/GAL. (OR) _____ °A.P.I.

16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK:
MINIMUM TEMPERATURE _____ °F MAXIMUM TEMPERATURE _____ °F

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
VAPOR PRESSURE: _____ LBS. REID (OR) 2.7 LBS. PER SQ. IN. ABSOLUTE AT 90 °F Ambient
INITIAL BOILING POINT: _____ °F Methylethyl Ketone
FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: _____ °F

18. OPERATIONAL DATA:
MAXIMUM FILLING RATE: _____ BARRELS PER HOUR (OR) 55 GALLONS PER HOUR
AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) _____ FT
AVERAGE THROUGHPUT: _____ BARRELS PER DAY (OR) _____ GALLONS PER DAY
TANK TURNOVERS PER YEAR: 5

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
NAME OF SOLVENT: _____ NAME OF MATERIAL DISSOLVED: _____
CONCENTRATION OF MATERIAL DISSOLVED: _____ % BY WEIGHT (OR) _____ % BY VOLUME (OR) _____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
IDENTIFY THE MATERIAL: _____
PRESSURE AT WHICH MATERIAL IS STORED: _____ LBS. PER SQ. IN. GAGE AT _____ °F

FORM PI-2 (72-9)

TABLE 7

STORAGE TANK SUMMARY

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING & CONSTRUCTION, INC.

2. TANK LOCATION: FREEPORT, TEXAS

3. TANK IDENTIFICATION (NUMBER OR NAME): T-16 1000 BBL Wash Water Tank

4. TANK CAPACITY: 1000 BARRELS GALLONS

5. TANK DIMENSIONS: DIAMETER 21'6" HEIGHT 16'0" LENGTH ____ WIDTH ____

6. TANK SHAPE: CYLINDRICAL [X] SPHERICAL [ ] OTHER SHAPE [ ] DESCRIBE ____

7. TANK MATERIALS OF CONSTRUCTION: STEEL [X] WOOD [ ] OTHER [ ] SPECIFY ____

8. TANK PAINT: CHALKING WHITE [ ] LIGHT GREY ~~OR BLUE~~ XXXXX [X] ALUMINUM [ ] DARK COLOR OR NO PAINT [ ]

9. TANK CONDITION: GOOD [X] FAIR [ ] POOR [ ]

10. TANK STATUS: NEW CONSTRUCTION [X] ALTERATION [ ]

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF [ ] PRESSURE [ ] INTERNALLY HEATED [ ] UNDERGROUND [ ]
FLOATING ROOF [ ] OPEN TOP [X] INSULATED [ ] OTHER [ ]

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
TYPE OF ROOF: DOUBLE DECK [ ] PONTOON [ ] OTHER [ ] DESCRIBE ____
TYPE OF SEAL: SINGLE [ ] DOUBLE [ ] OTHER [ ] DESCRIBE ____
TYPE OF SHELL CONSTRUCTION: RIVETED [ ] WELDED [ ] OTHER [ ] DESCRIBE ____

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

	Number	Pressure Setting	Vacuum Setting	Discharging To: (Check) Atmosphere	Vapor Control	Flare
Combination						
Pressure						
Vacuum						
Open	1			X		

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK: Water. DENSITY: 8.34 LBS/GAL. (OR) ____ °A.P.I.

16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK:
MINIMUM TEMPERATURE ____ °F MAXIMUM TEMPERATURE ____ °F AMBIENT

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
VAPOR PRESSURE: ____ LBS. REID (OR) ____ LBS. PER SQ. IN. ABSOLUTE AT ____ °F
INITIAL BOILING POINT: ____ °F
FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: ____ °F

18. OPERATIONAL DATA:
MAXIMUM FILLING RATE: ____ BARRELS PER HOUR (OR) 800 GALLONS PER HOUR
AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) 8 FT
AVERAGE THROUGHPUT: ____ BARRELS PER DAY (OR) ____ GALLONS PER DAY
TANK TURNOVERS PER YEAR: ____

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
NAME OF SOLVENT: ____ NAME OF MATERIAL DISSOLVED: ____
CONCENTRATION OF MATERIAL DISSOLVED: ____ % BY WEIGHT (OR) ____ % BY VOLUME (OR ____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
IDENTIFY THE MATERIAL: ____
PRESSURE AT WHICH MATERIAL IS STORED: ____ LBS. PER SQ. IN. GAGE AT ____ °F

FORM PI-2 (72-9)

TABLE 7

STORAGE TANK SUMMARY

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING & CONSTRUCTION, INC.

2. TANK LOCATION: FREEPORT, TEXAS

3. TANK IDENTIFICATION (NUMBER OR NAME): T-17 1000 BBL Wash Water Tank

4. TANK CAPACITY: 1000 BARRELS GALLONS

5. TANK DIMENSIONS: DIAMETER 21'6" HEIGHT 16'0" LENGTH _____ WIDTH _____

6. TANK SHAPE: CYLINDRICAL [X] SPHERICAL [ ] OTHER SHAPE [ ] DESCRIBE _____

7. TANK MATERIALS OF CONSTRUCTION: STEEL [X] WOOD [ ] OTHER [ ] SPECIFY _____

8. TANK PAINT: CHALKING WHITE [ ] LIGHT GREY [XX] ALUMINUM [ ] DARK COLOR OR NO PAINT [ ]

9. TANK CONDITION: GOOD [X] FAIR [ ] POOR [ ]

10. TANK STATUS: NEW CONSTRUCTION [X] ALTERATION [ ]

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF [ ] PRESSURE [ ] INTERNALLY HEATED [ ] UNDERGROUND [ ]
FLOATING ROOF [ ] OPEN TOP [X] INSULATED [ ] OTHER [ ]

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
TYPE OF ROOF: DOUBLE DECK [ ] PONTOON [ ] OTHER [ ] DESCRIBE _____
TYPE OF SEAL: SINGLE [ ] DOUBLE [ ] OTHER [ ] DESCRIBE _____
TYPE OF SHELL CONSTRUCTION: RIVETED [ ] WELDED [ ] OTHER [ ] DESCRIBE _____

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

	Number	Pressure Setting	Vacuum Setting	Discharging To: (Check) Atmosphere	Vapor Control	Flare
Combination						
Pressure						
Vacuum						
Open	1			X		

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK: Water
DENSITY: 8.34 LBS/GAL. (OR) _____ °A.P.I.

16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK:
MINIMUM TEMPERATURE ____ °F MAXIMUM TEMPERATURE ____ °F AMBIENT

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
VAPOR PRESSURE: _____ LBS. REID (OR) _____ LBS. PER SQ. IN. ABSOLUTE AT _____ °F
INITIAL BOILING POINT: _____ °F
FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: _____ °F

18. OPERATIONAL DATA:
MAXIMUM FILLING RATE: _____ BARRELS PER HOUR (OR) 800 GALLONS PER HOUR
AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) 8 FT
AVERAGE THROUGHPUT: _____ BARRELS PER DAY (OR) _____ GALLONS PER DAY
TANK TURNOVERS PER YEAR: _____

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
NAME OF SOLVENT: _____ NAME OF MATERIAL DISSOLVED: _____
CONCENTRATION OF MATERIAL DISSOLVED: _____ % BY WEIGHT (OR) _____ % BY VOLUME (OR _____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
IDENTIFY THE MATERIAL: _____
PRESSURE AT WHICH MATERIAL IS STORED: _____ LBS. PER SQ. IN. GAGE AT _____ °F

FORM PI-2 (72-9)

TABLE 7

STORAGE TANK SUMMARY

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING & CONSTRUCTION, INC.

2. TANK LOCATION: FREEPORT, TEXAS

3. TANK IDENTIFICATION (NUMBER OR NAME): T-18 5000 BBL Wash Water Tank

4. TANK CAPACITY: 5000 BARRELS GALLONS

5. TANK DIMENSIONS: DIAMETER 38'7" HEIGHT 24'0" LENGTH ____ WIDTH ____

6. TANK SHAPE: CYLINDRICAL ☒ SPHERICAL ☐ OTHER SHAPE ☐ DESCRIBE ____

7. TANK MATERIALS OF CONSTRUCTION: STEEL ☒ WOOD ☐ OTHER ☐ SPECIFY ____

8. TANK PAINT: CHALKING WHITE ☐ LIGHT GREY ~~OR BLUE~~ XXXXX ☒ ALUMINUM ☐ DARK COLOR OR NO PAINT ☐

9. TANK CONDITION: GOOD ☒ FAIR ☐ POOR ☐

10. TANK STATUS: NEW CONSTRUCTION ☒ ALTERATION ☐

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF ☐ PRESSURE ☐ INTERNALLY HEATED ☐ UNDERGROUND ☐
FLOATING ROOF ☐ OPEN TOP ☒ INSULATED ☐ OTHER ☐

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
TYPE OF ROOF: DOUBLE DECK ☐ PONTOON ☐ OTHER ☐ DESCRIBE ____
TYPE OF SEAL: SINGLE ☐ DOUBLE ☐ OTHER ☐ DESCRIBE ____
TYPE OF SHELL CONSTRUCTION: RIVETED ☐ WELDED ☐ OTHER ☐ DESCRIBE ____

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

	Number	Pressure Setting	Vacuum Setting	Discharging To: (Check) Atmosphere	Vapor Control	Flare
Combination						
Pressure						
Vacuum						
Open	1			X		

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK: Water DENSITY: 8.34 LBS/GAL. (OR) ____ °A.P.I.

16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK: MINIMUM TEMPERATURE ____ °F MAXIMUM TEMPERATURE ____ °F AMBIENT

17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
VAPOR PRESSURE: ____ LBS. REID (OR) ____ LBS. PER SQ. IN. ABSOLUTE AT ____ °F
INITIAL BOILING POINT: ____ °F
FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: ____ °F

18. OPERATIONAL DATA:
MAXIMUM FILLING RATE: ____ BARRELS PER HOUR (OR) 800 GALLONS PER HOUR
AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) 12 FT
AVERAGE THROUGHPUT: ____ BARRELS PER DAY (OR) ____ GALLONS PER DAY
TANK TURNOVERS PER YEAR: ____

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
NAME OF SOLVENT: ____ NAME OF MATERIAL DISSOLVED: ____
CONCENTRATION OF MATERIAL DISSOLVED: ____ % BY WEIGHT (OR) ____ % BY VOLUME (OR ____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
IDENTIFY THE MATERIAL: ____
PRESSURE AT WHICH MATERIAL IS STORED: ____ LBS. PER SQ. IN. GAGE AT ____ °F

FORM PI-2 (72-9)

TABLE 7

STORAGE TANK SUMMARY

Three copies of this form must be submitted for each storage tank.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: FISH ENGINEERING & CONSTRUCTION, INC

2. TANK LOCATION: FREEPORT, TEXAS

3. TANK IDENTIFICATION (NUMBER OR NAME): Oil/Water Separator

4. TANK CAPACITY: BARRELS 3840 GALLONS

5. TANK DIMENSIONS: DIAMETER 9'6" HEIGHT 8'0" LENGTH 8'0" WIDTH

6. TANK SHAPE: CYLINDRICAL ☐ SPHERICAL ☐ OTHER SHAPE ☒ DESCRIBE RECTANGULAR

7. TANK MATERIALS OF CONSTRUCTION: STEEL ☒ WOOD ☐ OTHER ☐ SPECIFY

8. TANK PAINT: CHALKING WHITE ☐ LIGHT GREY ☒ ALUMINUM ☐ DARK COLOR OR NO PAINT ☐

9. TANK CONDITION: GOOD ☒ FAIR ☐ POOR ☐

10. TANK STATUS: NEW CONSTRUCTION ☒ ALTERATION ☐

11. TYPE OF TANK: (CHECK ALL APPLICABLE) FIXED ROOF ☒ PRESSURE ☐ INTERNALLY HEATED ☐ UNDERGROUND ☐ FLOATING ROOF ☐ OPEN TOP ☐ INSULATED ☐ OTHER ☐

12. IF TANK IS TO HAVE A FLOATING ROOF, SUPPLY THE FOLLOWING INFORMATION:
TYPE OF ROOF: DOUBLE DECK ☐ PONTOON ☐ OTHER ☐ DESCRIBE
TYPE OF SEAL: SINGLE ☐ DOUBLE ☐ OTHER ☐ DESCRIBE
TYPE OF SHELL CONSTRUCTION: RIVETED ☐ WELDED ☐ OTHER ☐ DESCRIBE

13. IF TANK IS TO HAVE ANY OTHER TYPE OF ROOF OR COVER (OR NONE AT ALL), DESCRIBE:

14. VENT VALVE DATA: INDICATE TYPE, NUMBER, SETTINGS AND VAPOR DISPOSAL:

	NUMBER	PRESSURE SETTING	VACUUM SETTING	DISCHARGING TO: (CHECK) ATMOSPHERE	VAPOR CONTROL	FLARE
COMBINATION						
PRESSURE						
VACUUM						
OPEN	1			X		

15. NAME ALL LIQUIDS, VAPORS, GASES OR MIXTURES OF SUCH MATERIALS TO BE STORED IN THIS TANK: Hydrocarbons DENSITY: _____ LBS/GAL. (OR) _____ °A.P.I.

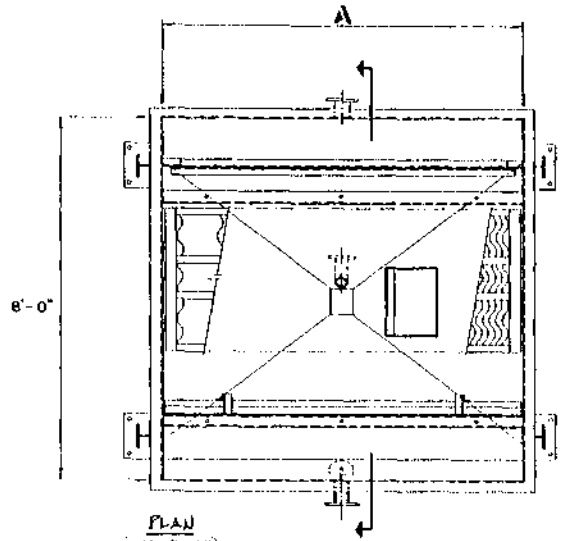
16. TEMPERATURES AT WHICH THE ABOVE LISTED MATERIALS ARE TO BE STORED IN THIS TANK:
MINIMUM TEMPERATURE _____ °F MAXIMUM TEMPERATURE _____ °F Ambient

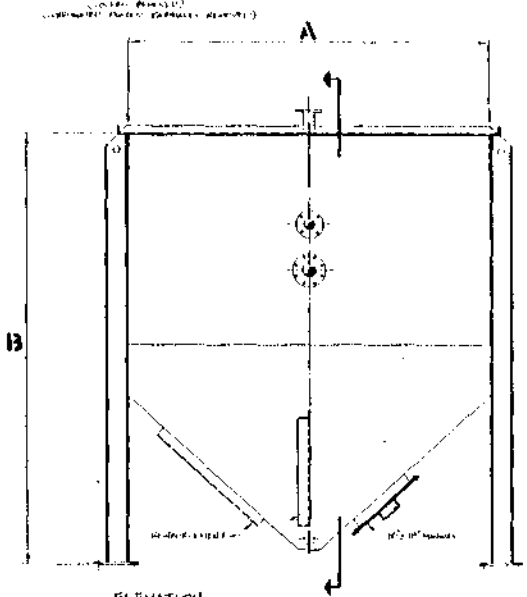
17. IF MATERIAL STORED IS A PETROLEUM PRODUCT OR ANY OTHER TYPE OF ORGANIC MATERIAL, SUPPLY THE FOLLOWING INFORMATION FOR EACH MATERIAL: (ATTACH ADDITIONAL SHEETS, IF NECESSARY).
VAPOR PRESSURE: _____ LBS. REID (OR) _____ LBS. PER SQ. IN. ABSOLUTE AT _____ °F
INITIAL BOILING POINT: _____ °F
FOR HEAVY PETROLEUM PRODUCTS ONLY: FLASH POINT: _____ °F

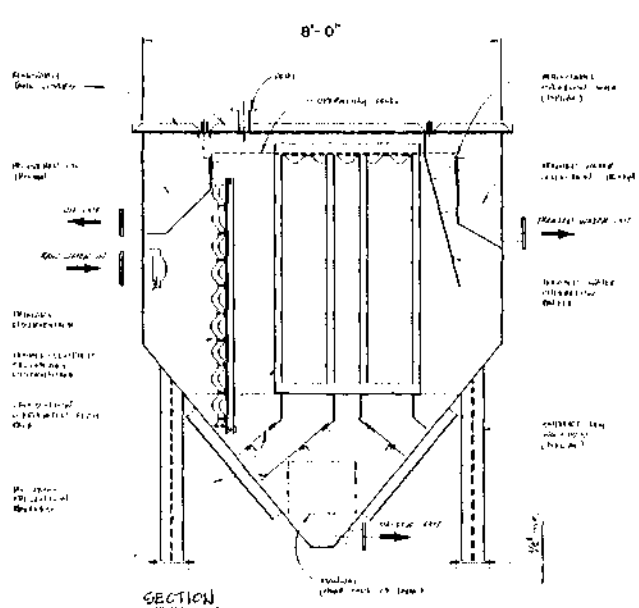
18. OPERATIONAL DATA:
MAXIMUM FILLING RATE: _____ BARRELS PER HOUR (OR) 800 GALLONS PER HOUR
AVERAGE OUTAGE: (AVERAGE DISTANCE FROM TOP OF TANK SHELL TO LIQUID SURFACE) 1.0 FT
AVERAGE THROUGHPUT: _____ BARRELS PER DAY (OR) _____ GALLONS PER DAY
TANK TURNOVERS PER YEAR: Tank operates at constant level

19. IF MATERIAL STORED IS A SOLUTION, SUPPLY THE FOLLOWING INFORMATION:
NAME OF SOLVENT: _____ NAME OF MATERIAL DISSOLVED: _____
CONCENTRATION OF MATERIAL DISSOLVED: _____ % BY WEIGHT (OR) _____ % BY VOLUME (OR _____ LBS./GALLON

20. IF MATERIAL STORED IS A GAS OR A LIQUIFIED GAS WHICH IS NOT A PETROLEUM PRODUCT, SUPPLY THE FOLLOWING INFORMATION:
IDENTIFY THE MATERIAL: _____
PRESSURE AT WHICH MATERIAL IS STORED: _____ LBS. PER SQ. IN. GAGE AT _____ °F







MODEL NUMBER	DIMENSIONS	
	A	B
CFS - 550 AG	4'-0"	9'-6"
CFS - 1000 AG	6'-2"	9'-6"
CFS - 1350 AG	8'-0"	9'-6"
CFS - 1700 AG	10'-0"	10'-6"
CFS - 2120 AG	10'-0"	11'-9"

GENERAL NOTES :

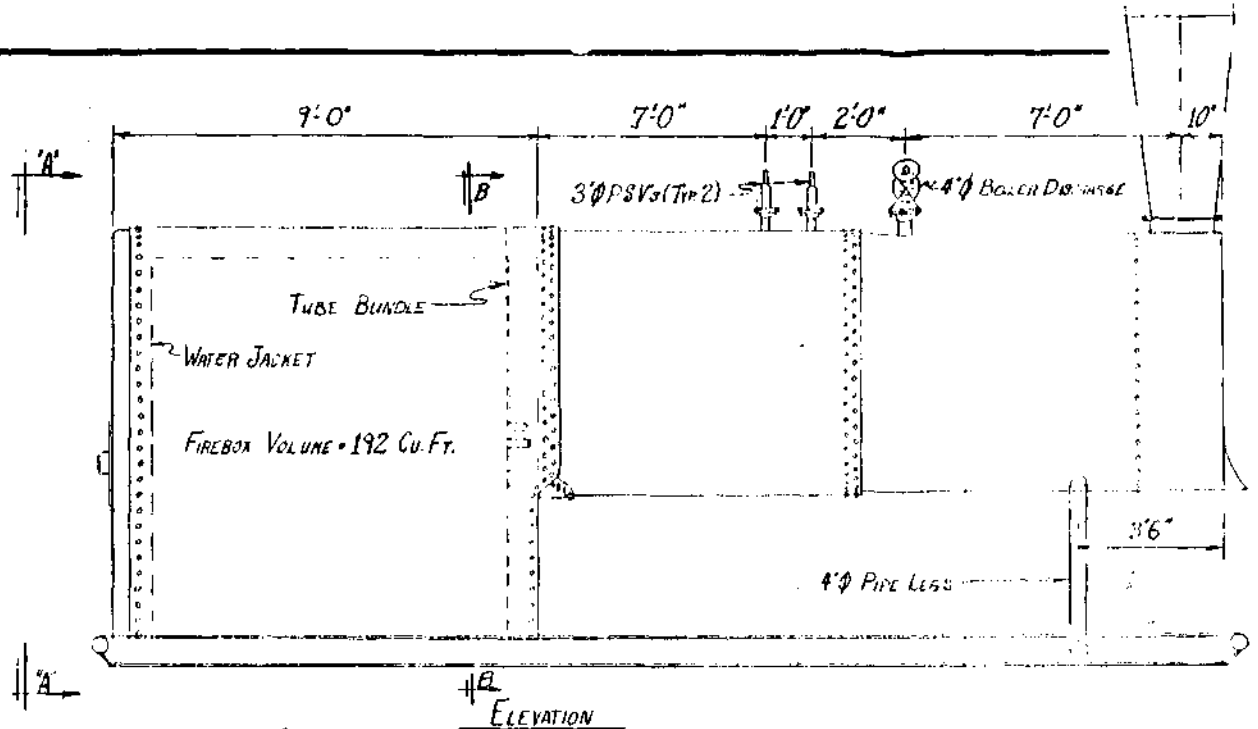
1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]

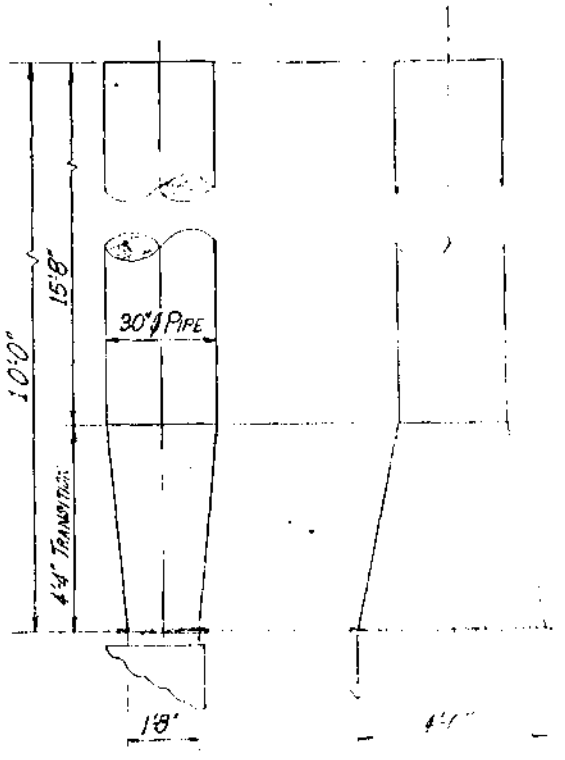
CERTIFIED

THE PICKERNOAD SEPARATOR COMPANY

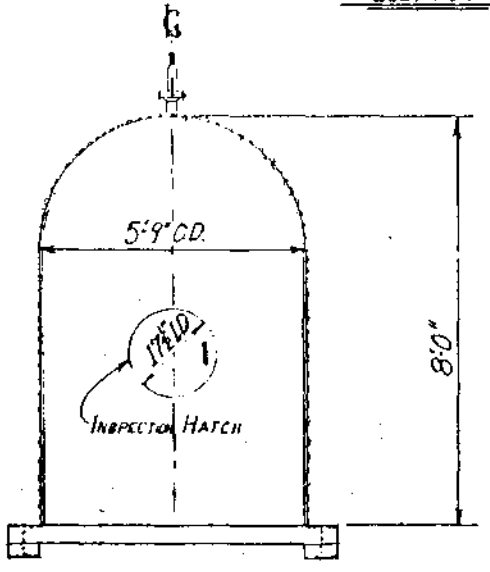
CROSS FLOW COALESCED PLATE OIL / SEDIMENT / WATER GRAVITY SEPARATOR

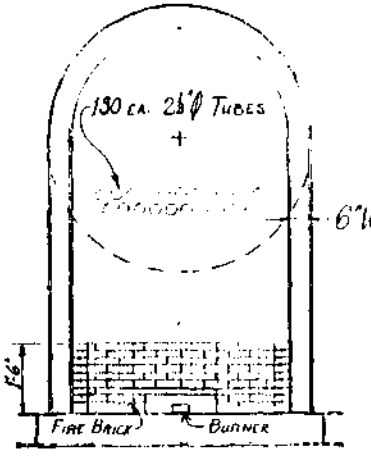
000987





Stack Detail





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0	Existing				
No.	Revisions	App	Date		

FISH ENGINEERING & CONSTRUCTION, INC.
HOUSTON, TEXAS

CUSTOMER

TITLE Boiler No. 1 ~ Elevation, Sections & Details

DRW AL CHK	DATE 11-3-81	JOB No	
APP	SCALE 3/8"=1'-0"	DWG No	

EXHIBIT II

INDEX

1. Topographical map (scale: 1:24,000 or approximately 2½ inches per mile) showing the isolated location of the Fish Freeport Marine Facility.

2. Photocopy of a photograph of the Marine Facility, depicting the Intracoastal Waterway in the foreground and Oyster Creek in the far distance.

3. Fish Freeport Marine Facility Plot Plan Sketch.

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